CONFIDENTIAL

Release Date -

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COUNTY		pache	 -	AREA	Alpine	e Prosp	ect		LEASE	E NO.	USDA-For	est Ser	vice
WELL N	NAME	PHILLIPS P	ETRO	LEUM CO.	11 TEM	PERATUI	RE GRAI	DIENT	HOLES	(See	attached	listing)
LOCATI	ON		SEC	TV	ν _P	RANG	Е	_ FO	OTAGE _		·		
ELEV _		_GR	КВ	SPUD D	TE Se	a- nple	tion	STAT		<u> -2</u>		TOTAL DEPTH	ttackie
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PERMIT NO.		COUNTY	P.	LOCAT			- 416			TAGE	2220 1201	<u>API</u> 02-001	
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819	A-2	90	T. 8	B N., R.	28 E.,	Sec. 2	7, NE,	SE, I	NW 1525	'FNL	,2810'FWL		-2 0267-
820	A-3	480	1.	B N., Ŗ.	29 E.,	Sec. 2	1, SE,	NE,	NE 1240)'FNL	, 60'FEL		-162687
821	A-4	505	Τ.	8 N., R.	30 E.,	Sec. 3	5, SE,	SW,	NW 2050	O'FNL	,1000'FWI		-10269 -10269
822	A~5	501	Τ.	8 N., R.	31 E.,	Sec. 1	5, SE,	NE,	SW 1740	O'FSL	,2620'FEI	•	90004 -2 0270
823	A-6										., 200'FEI		90005 - 20271
824	A-7	i –									., 685'FEI		-20272
											., 250'FE		-20273-
825	Λ-8	1									.,1940'FE		90008 -20274
826	A-9												90009
827	A-10										., 555'FE		90010
828	A-11.	48	ρŤ.	5 N., R.	31 E.,	Sec.	34, SW	, SW,	2M oc	ופא כו	L, 450'FW		
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BOND	CO. Sa	feco Ins.	Co. c	of Americ	a (file	1 P/N 7	63 thr	и вс	OND NO.	41	00 446		
		25,000					769)	DA	ATE	1-2	7-81 REPORT		
		EIPT 2297							4				
		See attach											
		BER 818 th							i.	_			

(over)

Release Date _

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WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG DESIGNATE TYPE OF COMPLETION: O & C CONS. COI Same Reservoir DESCRIPTION OF WELL AND LEASE Address 655 East 4500 South, Murray, UT 84107 Phillips Petroleum Co. Field & Reservoir Federal, State or Indian Lease Number or name of lessor if fee lease Well Number Temperature Gradient Well A-1 USDA - Forest Service County T.8N., R.27E., Sec. 15, NE SE SW Apache Sec. TWP-stange or Block & Survey Elevation (DF, REER, RT or Gr. 8393 Date total depth reached Date spudded 10/5/82 10/4/82 If this is a dual furnish separate pletion. Single, dual or triple completion? P.B.T.D. Total depth Rotary tools used (interval) Cable tools used (interval) Producing interval (a) for this completion To T.D. Was copy of directional survey fied? Date filed Was this well directionally drilled? Was directional survey made? Date filed Type of electrical or other logs run (check logs filed with the commission) CABING RECORD Casing (report all strings set in well-conductor, surface, intermediate, producing, etc.) Amt. pulled Sacks cement Size casing set Weight (lb./ft.) Depth set Size hole drilled LINER RECORD TUBING RECORD Screen (ft.) Sacks coment Bottom Depth est Packer set at Siso Top Size ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD PERFORATION RECORD Depth Interval Am't. & kind of material used Depth Interval Number per ft. Size & type INITIAL PRODUCTION Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Late of first production Oll prod. during test | Gas prod. during test Oil gravity Water prod. during test Choke size Date of test | Hrs. tested * AFI (Corr) Gas-oli ratio Water Cal'ted rate of Pro-duction per \$4 hrs. Gas Oll Tubing pressure Casing pressure MCP bbls. Disposition of gas (state whether vented, used for fuel or sold): Phillips Petroleum Co... (company), and that I am authorised by said correport was prepared under my supervision and direction and that the facts stated therein are true, correct STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log File One Copy 818 Form No. 4

RECEIVED

ADVANTA O

Permit No.

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Тор	Bottom	Description ^a
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[&]quot; Show all important somes of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, sushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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- Attach drillers log or other acceptable log of well.
- This Well Completion or Recompletion reported well log shall be filed with the State of Arisona Clinic Gas Conservation Commission not later than thirty days after project completion.

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DEC 1 1982

O & G CONS. COMM.

PHILLIPS PETROLEUM CO.

Steet No.
Date Sterted
Date Completed

Coller Elevation

Total Footage 340

Overall Core Recensing

170 miles obsantion and stay advant the Basalt Medical gray, advant the Basalt Medical property of the Basalt Medical property of the Basalt Medical property with sold explaining strength the Basalt Medical property with sold explaining strength the Basalt of Basalt	Type Drift.	7		<u> </u>	Date Completed GEOLOGIC LOG	Overell Core Recornery Logged By Steven Burnt Have	at Kom
90 Basalt, Medicin gray, achaniti, minar Fell's staining Basalt, Medicin pay, achaniti, minar Fell's staining Basalt, Medicin becam-geny, desicular, with mica Basalt, Medicin gray, with 50% exhibiting steeny Basalt, Mad gray, westeries Anatitic almatical sweethering Anatical steeny An	FROM	,	7.89 9.89	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION	SECTION DEPTH
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180 Cuests of Huite Eusalt, Malina gray, with 50% exhibiting streng Maratitic altration & westweing Husself, Back gray, versionlar, with minnery str at Augita Augita	3	80			Medium amy		
180 Besatt, Halina grav, with 50% explicity extense 200 Besatt the alteration & weathering 340 Besatt part gray, resicular, with mica ery ets of Aveir	00				Medium brown		
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APPLICATION TO DRIL	រប់ 		KE-EKIEF DID	AUG 9 199
AME OF COMPANY OR OPERATOR				D & G CONS. COM
Phillips Petroleum Company				
DDRESS 655 E 4500 S	Salt Lake	City	Utah	STATE
833 C 4300 2				
RILLING CONTRACTOR Southwest Drilling C	0.			
NUMESS 690 N. Industrial Rd	. St. George, U	tah 84770 WELL AND LEASE		
EDERAL, STATE OR INDIAN LEASE NUMBER AND OF LESSOR USDA - Forest Service		WELL KUMBER		10N (GROUND)
EAREST DISTANCE FROM PROPOSED LOCAT		TARREST FRAM BI	OPPOSED LOCATION TO PLIED-FOR WELL ON TH	KEAREST DRILLING:
O PROPERTY OR LEASE LIKE:	Fe et	COA, LEVEL ON A		FEET
UNBER OF ACRES IN LEASE:		KUMBER OF WELLS COMPLETED IN OR	ON LEASE, INCLUDING DRILLING TO THIS RE	THIS WELL- SERVOIR:
	PRAVE	<u> </u>	ADDRESS	
F LEASE, PURCHASED WITE ONE OR WORLELLS DRILLED, FROM WHOM PURCHASED:		·		
ELL LOCATION (GIVE FOOTAGE FROM SEC	TON D	DENSHIP-RANGE OR BE	OCI AND SURVEY DEDI	CATION PLY WITE RULE G-105
2220' E 630' N fr SW cor. C	VPI: 17 1	27E, Sec. 15, 1	IE DE DM	
Tamamatura aradient We	11	Apache Co	ounty	
ISTANCE. IN WILES, AND BIRECTION F	ROW KEAREST TOWN OR P	OST OFFICE	•	
ROPOSED DEPTR: .	ROTARY OR CABLE T	00LS	APPROX. DATE NOR	
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ERTIFICATE: 1. THE UNDERSIGNED, 1	INDER THE PENALTY OF 1	PERJURY, STATE THAT	1 AN THE Geologi	st
i putlitus Patroleum	(courter) ()	ROHTUA VA T TANT 65	IZED BY SAID COMPANI	10 KARE INIS NEIUNI
i Inc	UKDER WY SUPERVISION	AND DIRECTION AND	THAT THE FACTS STAT	ED THEREIN ARE TRUE
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A Comment		\$16,571	IRE	
		8-5-82		
	· .	DATE		
010				
ERVIT KUVBER: 8/8	2	- ·	STATE OF ARIZO	ONA
PEROVAL DATE: 8-10-8	<u> </u>	OIL&	GAS CONSERVATION	
PPROVED BY: R.G. TA	ing.	AP	PLICATION TO DRILL C	R RE-ENTER
NOTICE: DEFORE SENDING IN THIS FORM BESU	RF THAT YOU HAVE GIVE		FILE TWO COP	l E\$
· 海 t.t laformation requisited. NUCH	INNECESSART CORRESPON	FORM NO. G-3	• .	
ACE VILL TRUS BE AVOIDED.			The second contraction of the second	

. OPERATOR SHALL GUTLINE THE DEDICATED ACREAGE FOR GEOTHERNAL RESOLPCES WELLS ON THE PLAT. A REGISTERED PROFESSIONAL ENGINEER OR LAYD SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSION SHALL SOON THE PLAY THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. ALL DISTANCES SHOWN ON THE PLAT WUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE FLAT BELOW? TES_ IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COWNUNITIZATION AGREEME: OR OTHERWISE? TES________ NO______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION IF THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description ner T8N-R27E, Sec. 15 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Position Geologist Phillips Petroleum 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor ϵ 330 660 990 1320 1650 1980 2310 Certificate No. 2640 1000 2000 1500 500 PROPOSED CASING PROGRAM Size of Casing Grade & Type Cementing Depths Sacks Cement Bottom Weight 6" hole to T.D. Install 1" PVC pipe to T.D. Plugged at bottom and filled with water.

Measure temperature there Plug and abandon within

e yehr.

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3771 Greer 7.5' 10REENS PEAK) 27 MC NARY 22 MI.

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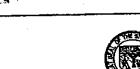
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Antelope Mtn Ellis Wiltbank Reservoix 13 6 A-1 x Cinder Pits 23 22/ 24 --; ₽M., \ 3166 [] sis

> Cheese Spring

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Greet 7.5'



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

T		PHILLIPS !	PETROLEUM COMPANY		
То:			(OPERATOR)		
		to drill a w	vell to be known as		
	Ĭ		A-1 PEDERAL		<u> </u>
		(WELL NAME)		
located_	630' FR	ON SOUTH LINE & 2220'	from West Line (Ne	SE SW)	
Section_	15 T	ownship 8 NORTH Range	27 BAST ,	APACHE	County, Arizona.
The			NA		of said
	Township a	and Range is dedicated to	this well.		
Sai in full c	d well is to	be drilled substantially as with all applicable laws, s	outlined in the attach	ned Application as ulations of the St	nd must be drilled ate of Arizona.
lss	ued this 10	Oth day of August		, 19 <u>82</u>	
			OIL AND GAS	CONSERVATION	COMMISSION
			By <i>R. C</i>	EXECUTIVE SECRET	ARY

PERMIT

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RECEIPT NO. 2297

API NO. 02-001-20266

State of Arizona

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

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(Complete Reverse Side)

		DETAIL OF I	FORMATIONS PENETRATED
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^{*} Show all important somes of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, sushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion reported well log shall be filed with the State of Arisons

Gas Conservation Commission not later than thirty days after project completion. thirty days after project completion.

Ferm No. 4

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DEC 1 1982

O & G CONS. COMM.

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PHILLIPS PETROLEUM CO.

SECTION DEPTH Logged By Starte Bunt Hear-Total Footage 80 Overell Core Recovery. GEOLOGIC LOG ROCK DESCRIPTION, ALTERATION AND REMARKS deck gay. Allumium Sheet No.
Date Started
Date Completed Meathered TYPE 2.8 2.8 40 200 70 2 Condinate Type Drill Size. TROM. 20

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APPLICATION TO DRILL	ON EOR PERMI GEO BERMAL RE	SOURCES WELL	R HE-ENTER OF	
NAME OF COMPANY OR OPERATOR				
Phillips Petroleum Company		7 No. 0 2	-	Stah STATE
ADDRESS 655 E 4500 S	Salt Laƙé	tity .		
DRILLING CONTRACTOR Southwest Drilling				
ADDRESS 690 N. Industrial	Rd. St. George	Utah 84770 F WELL AND LEASE	<u> </u>	
		~ 1 <u> </u>		ELEVATION (GROUND)
FEDERAL, STATE OR INDIAN LEASE NUMBER KAME OF LESSON USDA - Forest Service		1 A-2		8370'
REAREST DISTANCE FROM PROPOSED LOCATI TO PROPERTY OR LEASE LINE:	ION	DISTANCE FROM PR COMPLETED OR APP	OPOSED LOCAT LIED-FOR WEL	ION TO KEAREST DRILLI L OK THE SAME LEASE:
NUMBER OF ACRES IN LEASE:	FEET	NUMBER OF WELLS COMPLETED IN OR	ON LEASE, IN	CLUDING THIS WELL- THIS RESERVOIR:
			ADDRESS	
WELL LOCATION (GIVE FOOTAGE FROM SECT 2810 E 1525 S fr NW cor. Sec FIELD AND RESERVOIR (IF KILDCAT, SO	C. 27 T8N-R2	BE Sec. 2/ NE	DE MM	CONPLY WITH RULE
WELL LOCATION (GIVE FOOTAGE FROM SECT	C. 27 T8N-R2 STATE) 11	COUNTY Apache Cou	DE MM	DEDICATION (COMPLY WITH RULE
VELL LOCATION (GIVE FOOTAGE FROM SECT 2810'E 1525'S fr NW cor. Section and reservoir (15 kildcat, so Temperature gradient we distance, 1k kiles, and direction for	C. 27 T8N-R2 STATE) 11	Apache Court	Inty	ATE WORE WILL START
WELL LOCATION (GIVE FOOTAGE FROM SECT 2810'E 1525'S fr NW cor. Sec FIELD AND RESERVOIR (IF WILDCAT, SO Temperature gradient We DISTANCE, IN WILES, AND DIRECTION FOR PROPOSED DEPTH:	STATE) 11 ROW KEAREST TOWN OR ROTARY OR CABLE ROTARY	Apache Corrors office	unty APPROX. D Sept	ATE WORE WILL START tember 1, 1982
WELL LOCATION (GIVE FOOTAGE FROM SECT 2810'E 1525'S fr NW cor. Sect FIELD AND RESERVOIR (IF WILDCAT, SO Temperature gradient we distance, IN WILES, AND DIRECTION FOR PROPOSED DEPTH: Unknown at present BOND STATUS	STATE) 11 11 11 11 11 11 11 11 11	Apache Corrors office	unty APPROX. D Sept	ATE WORE WILL START tember 1, 1982 EE of \$25.00
WELL LOCATION (GIVE FOOTAGE FROM SECT 2810'E 1525'S fr NW cor. Sec FIELD AND RESERVOIR (IF WILDCAT, SO Temperature gradient we distance, in wiles, and direction for the proposed depth: Unknown at present	TROTARY OR CABLE ROTARY OR CABLE ROTARY ORGANIZATION REP	Apache Correct Office	APPROX. D Sept	ATE WORE WILL START tember 1, 1982 EE of \$25.00
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BEFORE STADING IN THIS FORM BESURE THAT TOU HAVE GIVEN ALL INFORMATION REQUESTED. MUCH UNNECESSARY CORRESPONDENCE FILL TRUS BE AVOIDED.

FILE TWO COPIES

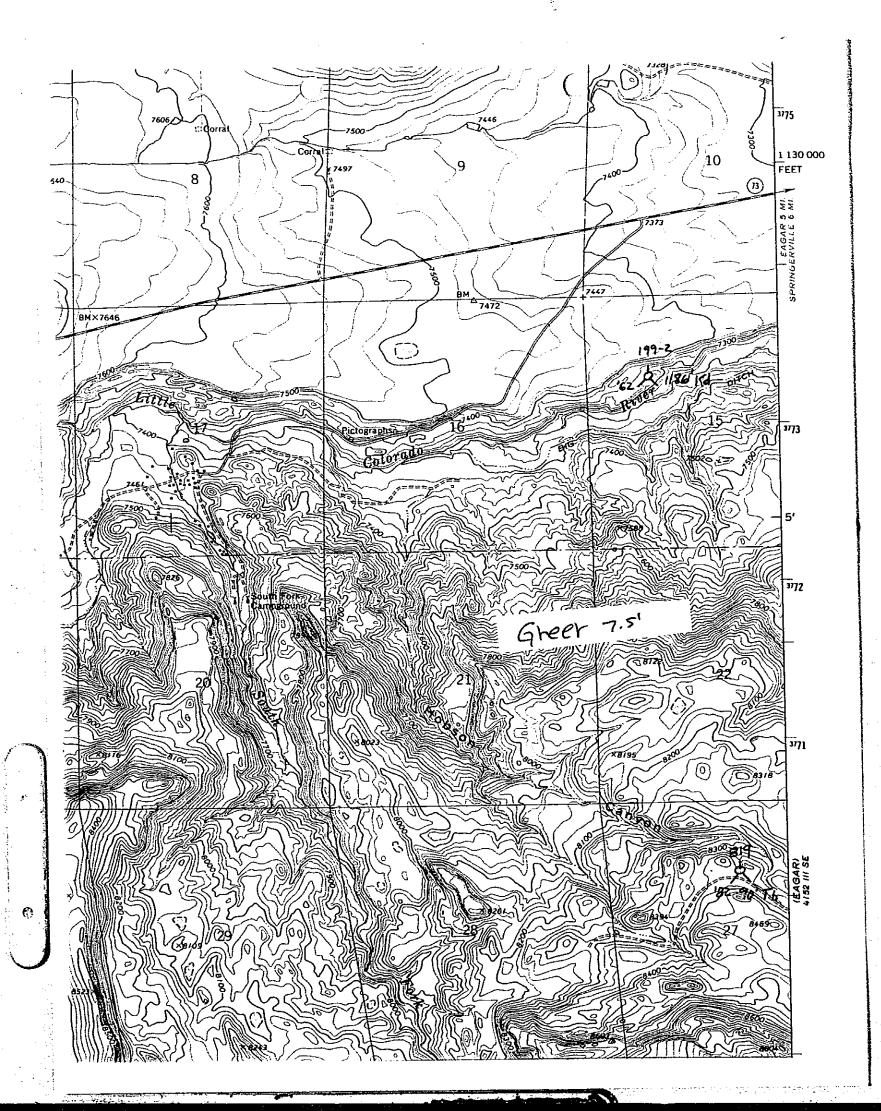
FORM NO. C-3

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. OPERATOR SPALE OUTLINE THE DEDICATED ACREAGE FOR GEOTHERWAL RESOURCES WELLS ON THE PLAT. . J REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSION SHALL SHOW ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? IF THE ANSWER TO QUESTION FOUR IS "NO" HAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT OR OTHERWISE? TES ________ NO _______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION IF THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Owner T8N-R28E, Sec. 27 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. A-2 Position Geologist Company Phillips Petroleum. Date 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor () Certificate No. 330 660 990 1320 1650 1980 2310 1000 2000 1500 500 PROPOSED CASING PROGRAM Sacks Coment Grade & Type Battom Cementing Depths Size of Casing Weight 6" hole to T.D. Install 1" PVC pipe to T.D. Plugged at bottom and filled with water.
Measure temperature ther n.

Plug and abandon within .a year.

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Christia Tigata, آدي. .

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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

-	PHI	LLIPS PETROLEUM COMPAI	MY	
To:		(OPERATOR)		
	to	drill a well to be known	as	
	•	A-2 FEDERAL		
		(WELL NAME)		
located 1525 F	NL & 2810' FWL (1	ve se nw)		
Section 27	Township 8 NORTI	I Range 28 EAST ,	APACHE	County, Arizona.
The		KA	<u> </u>	of said
Section, Township	and Range is dedic	cated to this well.		
Said well is to	o be drilled substan with all applicable	ntially as outlined in the at laws, statutes, rules and	ttached Application regulations of the S	and must be drilled itate of Arizona.
Issued this	10th day of	August	, 19 <u>8</u> 2	<u>} </u>
		OIL AND G	SAS CONSERVATIO	N COMMISSION
		Ву/	2 (Star EXECUTIVE SECRI	ra-

PERMIT

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RECEIPT NO. 2297

API NO. 02-001-20267

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

RECEIVED WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG O&G CONS. COMM. DESIGNATE TYPE OF COMPLETION: Same Reservoir Well X DESCRIPTION OF WELL AND LEASE Address Operator 655 East 4500 South, Murray, UT 84107 Phillips Petroleum Company Field & Reservoir Federal, State or Indian Lesse Number or name of lessor if fee lesse Well Number Temperature gradient well A-3 USDA- Forest Service County Location T.8N., R.29E., Sec. 21, SE NE NE Apache Sec. TWP-stange or Block & Survey Date completed, ready to produce meration (DF, 2008, RT or Gr Date total depth reached Date spudded 10/2/82 10/1/82 Single, dual or triple completion? P.B.T.D. Total depth 480' Cable tools used (interval) Rotary tools used (interval) Producing Interval (s) for this completion To T.D. Was copy of directional survey filed? Date filed Was this well directionally drilled? Was directional survey made? Date filed Type of electrical or other logs run (check logs filed with the commission) CASING RECORD Casing (report all strings set in well-conductor, surface, intermediate, producing, etc.) Amt. pulled Weight (lb./ft.) Depth set Sacks coment Sise casing set Size hole drilled Purpose LINER RECORD TUBING RECORD Screen (ft.) Sacks coment Bottom Packer set at Depth set Size ACID, SHOT, FRACTURE, CEMENT SQUEEKS RECORD PERFORATION RECORD Depth Interval Am't. & kind of material used Depth Interval Size & type Number per ft. INITIAL PRODUCTION Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Late of first production Oil prod. during test | Gas prod. during test | Water prod. during test Date of test | fire, tested | Choke size MCF * API (Corr) bble. Gas-oil ratio Water Cal'ted rate of Pro-duction per 24 hrs. Gas Tubing pressure Casing pressure MCF bbls. Disposition of gas (state whether vented, used for fuel or sold): Phillips Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct November 29, 1982 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log

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Persot No

File One Copy Form No. 4

(Complete Reverse Side)

See attached lithologic log	Formation	Top	Bottom	Description
			: log	

[&]quot;Show all important somes of perceity, detail of all ceres, and all drill-stem tests, including depth interval tested, sushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion reported well log shall be filed with the State of Arizona Gas Conservation Commission not later than thirty days after project completion.

thirty days after project completion.

Form No. 4

RECEIVED

DEC 1 1982 0 & G CONS. COMM.

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Collar Elevation Total Footage 483 Overall Core Recovery-	Paged By.	<u> </u>								-	-	-	-		_ - 		_		_							!
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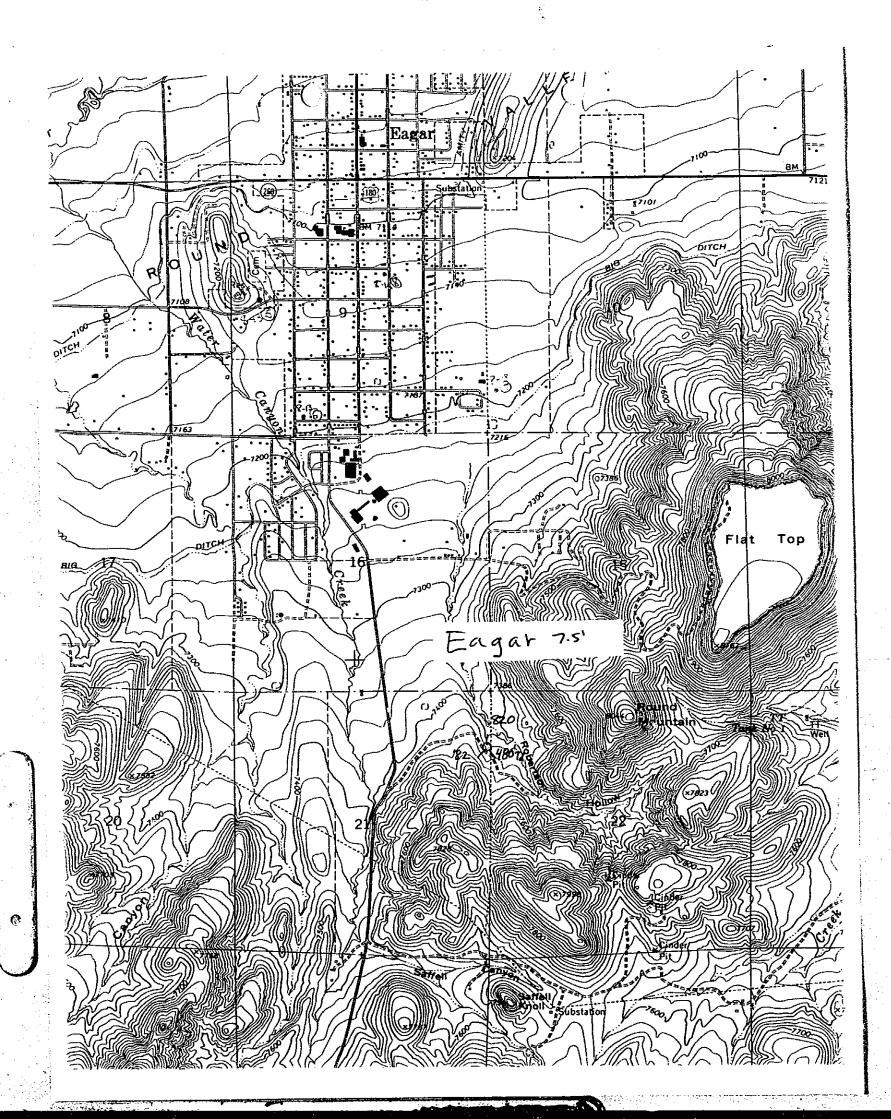
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APPLICATION TO DRILL	ď.		RE-EAST.	
AME OF COMPANY OR OPERATOR				
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DURES 655 E 4500 S	Salt Lake	City .		Jtah STATE
	·			
Southwest Drilling Co.			·	
ODRESS 690 N. Industrial Rd.	St. George, U	tah 84770 —		
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UNBER OF ACRES IN LEASE:		COMPLETED IN OR I	RILLING TO	IBIS DESERVOINE
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F LEASE, PURCHASED WITH ONE OR WORE ELLS DRILLED, FROM WHOM PURCHASED:		•		
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PROPOSED DEPTH:	ROTARY OR CABLE T	00LS	1	ATE WORK WILL START
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REWARKS:				
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CERTIFICATE: I. THE UNDERSIGNED, UN	DER THE PERALTY OF I	PERJURT, STATE THAT	I AN THE GO	eologist
OF THE Phillips Petroleum	(COMPANY), A	HD THAT I AM AUTHORI	ZED BT SAID	COMPART TO MAKE THIS REP
OF THE Phillips Petroleum AND THAT THIS REPORT MIS PREPARED U COLRECT AND COMPLETE TO THE BEST OF	KDER MT SUPERVISION	AND DIRECTION AND	THAT THE FAI	STATED THEREIR ARE
COLRECT AND COMPLETE TO THE DESI- OF	•	2 lary	1 Rose	sour
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-	•	8-5-82		
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PERUIT NUMBER: S-10-8	2			F ARIZONA
AFFROVAL DATE: S-10-8 R. G 13	ana			VATION COMMISSION
		1 100	TICTLION TO	DRILL OR RE-EXTER
APPROVED BY:		. ""		
APPROVED BY: NOTICE: BEFORE SENDING IN THIS FORM BESURE ALL INFORMATION REQUISITED. MUCE UN	TWAT YOU RAVE GIVE			TNO COPIES

: CHERATOR SHALL OUTLINE THE DEDICATED ACREAGE FOR GEOTHERMAL RESGURCES WELLS ON THE PLAT. A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSION SHALL FROM ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTIOR. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? IF THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWKERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Owner T8N-R29E, Sec. 21 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Position (Geologist Phillips Petroleum 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor 52 Certificate No. 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 PROPOSED CASING PROGRAM Sacks Cement Size of Casing Grade & Type Cementing Depth's Weight Top Pottom 6" hole to T.D. Instally " PVC pipe Plugged at bottom and to T.D. filled with kater. Measure temperature therein.
Plug and abaudon within

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Racelrack Eagar Flat Top **326** (\hat{g}) Cinde Pit Saffell Anoll



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

~	PHILI	LIPS PETROLEUM	COMPANY		
To:		(OPERATOR))		
	to di	rill a well to be l	known as		
	· · · · · · · · · · · · · · · · · · ·	A-3 FED	RRAL		
		(WELL NAME)			
located 1240* FN	L 4 60° PEL (SE N	E NE)			
Section 21	ownship 8 NORTH	Range 29 BAS	<u>T</u> ,	APACHE Co	ounty, Arizona.
The		na .			of said
Said well is to	and Range is dedica be drilled substanti with all applicable l	ally as outlined i	n the attache es and regul	d Application and a ations of the State	must be drilled of Arizona.
Issued this	Othday of	August		, 19 <u>82</u>	
		OiL	AND GAS C	ONSERVATION C	OMMISSION
		Ву	-R. 6	EXECUTIVE SECRETARY	
	' 0 000			State of Arizo	ona

PERMIT

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RECEIPT NO. 2297

API NO. 02-001-20268

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

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(Complete Reverse Side)

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Bottom Descriptions

DETAIL OF FORMATIONS PENETRATED

Top

Formation

*See attached lithologic log

INSTRUCTIONS:

(B)

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion reported well log shall be filed with the State of Arisons Commission not later than thirty days after project completion.

^{*} Show all imperiant sense of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, emphion used, time tool open, flowing and shut-in pressures, and recoveries.

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DEC 1 1982

O & G CONS. COMM.

Sheet No.

Sheet No.

Date Started

Alpine Alrizona

Date Completed

GEOLOGIC LOG

Type Drift

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Total Footage 500 Overall Cora Recovery Logged By States Beant Year

SECTION DEPTH light to meetium brown . 40% Feldson Ecogments, 10% Force inapactics 30% Volagnic fragments , 20% Quarte, 10% Ford dork-gray, vesicular, With microcysts of ROCK DESCRIPTION, ALTERATION AND REMARKS Feldspac, 40% Voleanie and 10% Quarte and Clay, magnetic minuals Sandstone Sandstone Basalt. 177 1.8 2.6 2.6 320 200 09 2 Bit Size 320 FROM 9 0

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AME OF COMPANY OR OPERATOR				
Phillips Petroleum Compan	<i>'</i>			tah STATE
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RILLING CONTRACTOR Southwest Drilling	. Co			
	Rd St George	Utah 84770 NELL AND LEASE		
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ederal, state or indian lease how ave of lesson USDA - Forest Service	ber, on 22 too and	A-4		7833¹
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		negative Etite fült	TANTHE GE	ologist
CERTIFICATE: 1. THE UNDERSIGNED. Phillips Petroleum	UNDER THE PERALIT OF	THE TAY ANTHOR!	ZED BY SAID	COMPART TO MAKE THIS REPOR
OF THE PERSON NAMED AND THE PE	N UNDER MY SUPERVISION	AND DIRECTION AND	THAT THE FAC	IS STATED THEREIN ARE TRU
AND THAT THIS REPORT HAS PREFAME CORRECT AND COMPLETE TO THE BEST	Ur XI Enduzzabeta	X Jarry	Asi	douin
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TACE VILL THUS BE AVOIDED.				

OPERATOR SPALL DUTLING THE DEDICATED ACREAGE FOR GEOTHERMAL RESCURCES WELLS ON THE PLAT. . A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNISSION SHALL 5.00 ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT WUST BE FROM THE OUTER BOUNDARIES OF THE SECTIOR. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? TES_ IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT ROTHERWISE? TES________NO_______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description wher T8N-R30E Sec. 35 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Position (Geologist Company ·Phillips Petroleum. Date 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor قتصبة Certificate No. 330 660 990 1320 1650 1980 2310 2640 1500 1000 500 PROPOSED CASING PROGRAM Sacks Cement Size of Casing Cementing Depths Weight Grade & Type Bottom Plugged > bottom and 6" hole to T.D. Install," PVC pipe to T.D. filled with water.

Measure temperature therin. Plum and abandon within a O

Reagan Reservoir Nelson Reservoit 7.5' 12 BM X 7983 3764000m.N

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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

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PERMIT Nº.

RECEIPT NO. 2297

API NO. 02-001-20269

Nº 821

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

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Date of text	,,,,	CORCOL	""				bble.	- 1			MCP			bble			API (Corr
Tubing pressu	ге	Casing p	ressure	Cal'te duotic	drate of	f Pro- H hm	OH		ble.	Gas	1	(CF	Water	bble	- 1	344-0	il ratio
Disposition of	gas (i	state wher	her ve	nted, used i	for fuel	OT 90	16):		-	<u> </u>					E		
														<u>-</u>			
CERT FICATE	: I. 1h	e undersid	med, u	nder the per	salty of I	perju	y, slate t	hat I an	n the.	Geo	logis	t					of the
Phill:	ins	Petrol	leum	Company	,	(00	mnany).	and the		- authori	ed by	aid com	pany to	make this	: rep	ort; ar	d that this
report was pr	pared	under my	/ super	vision and d	irection	and t	hat the fa	cis state	d the	tin fre	lrue, coi	rect an	7	ا وراز ما ما	best (of my	knowledge
Novem	her	29, 10	382					,	X	Jan	4	1	Ron	llre	1	1	/
3) 110 4 ()	J	,			· · · · · · · · · · · · · · · · · · ·				Sign	ture	7						
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	, <u></u> -		<u> </u>							•	GAS	CONS	ERVAT	RIZONA ION CO	MM		

(Complete Reverse Side)

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Formation	Тор	Bottem	Description*
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^{*} Show all important sense of perceity, detail of all ceres, and all drill-stem tests, including depth interval tested, sushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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Attach drillers log or other acceptable log of well.

Gas Conservation Commission not later than This Well Completion or Recompletion report A well log shall be filed with the State of Arizona of thirty days after project completion. thirty days after project completion.

Form No. 4

RECEIVED LEU 1882 O & G CONS. COMM.

(Entering)

PHILLIPS PETROLEUM CO.

			ļ		Det Started Hoine Hizona	Total Footoge 127	
ye Drift	整		. 1			Overell Core Recovery	+ Ken
it Size					GEOLOGIC LOG	METALLIZATION	
T T	٤	F. 08.0	TYPE		ROCK DESCRIPTION, ALTERATION AND REMARKS		SECTION DEPTH
					Sandstone & Clay, Medium gray to light brown +5%		
					13		
	220				Comentral		
0 10					Muckelode, median brown, poor inducated , 10% - 15%		
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BEFORE SINDING IN THIS FORM BESURE THAT TOU HAVE GIVEN FALL INFORMATION REQUESTED. MUCH UNNECESSARY CORRESPOND-ENCE MILL THUS BE AVOIDED.

AFFROVED BY:

APPLICATIO	. FOR PERMIT	TO DRILL OF	. (•
APPLICATION TO DRILL (RE-LATER OF	ID SEIT []
INE OF COMPANY OR OPERATOR				
Phillips Petroleum Company				
DURES 655 E 4500 S	Salt Lake	Tity .	U	tah STATE
DOD E 4500 5				
Southwest Drilling Co.				
PURESS 690 N. Industrial Rd.	St. George, Ut	ah 84770 — Well and lease	-	
EDERAL, STATE OR INDIAN LEASE NUMBER.	OR IF FEE LEASE.	WELL NUMBER		ELEVATION (GRGUND)
IVE OF LESSOR		A-5		7394'
USDA - Forest Service EAREST DISTANCE FROM PROPOSED LOCATION	*	DISTANCE FROM PRO	POSED LOCAT	ION TO REAREST DRILLING: L ON THE SAWE LEASE:
PROPERTY OR LEASE LINE:	FEET			FEE
UNBER OF ACRES IN LEASE:		KUMBER OF WELLS OF COMPLETED IN OR I	N LEASE, IN	CHUDING TRIS WELL. THIS RESERVOIR:
F LEASE, PURCHASED WITH ONE OR WORE ELLS DRILLED, FROM WHOM PURCHASED:	NAME		ADDRESS	
ELL LOCATION (GIVE FOOTAGE FROM SECTION	OK LIKES) SECTION-TO	MASHIP-RANGE OR BLO	CE AND SURVE	CONDITY WITH RULE C-10
2620'W 1740'N fr SE cor. Sec.		31E Sec. 15-SE	NF_SW	(CONPLI WITH NOTE 8-12
TELD AND RESERVOIR (IF WILDCAT, SO S	TATE)	COUKTY		
Tture eradient Well		Apache Cour	ıty	
ISTANCE, IN WILES, AND DIRECTION FROM	K REAREST TORR UN.			· · · · · · · · · · · · · · · · · · ·
PROPOSED DEPTRE	ROTARY OR CABLE T	001.5		ATE WORK WILL START
Unknown at present	Rotary	•		ember 1, 1982
BOND STATUS	ORGANIZATION REPO			EE OF \$25.00
A KOURT	OK FILE	OR ATTACHED	ATTACHED	
RENARKS:				•
•				\$.
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•				·
			Ge	onlogist
CERTIFICATE: 1. THE UNDERSIGNED, UND	ER THE PENALTY OF F	ENJURY, STATE THAT	AN THE OL	.0109130
OF THE Phillips Petroleum AND THAT THIS REPORT WAS PREPARED UN CORRECT AND COMPLETE TO THE BEST OF 1	COMPART), AND DER MY SUPERVISION			consists to vive this elec-
COMMENT AND COMMENT OF THE COMMENT O	••	X Jarry	DO	wun
	÷, ÷	\$165,701	IE .	e e e
Ĭ.		8-5-82		
-		DATE		
820				
PERVIT KUNBER: S-10-8	2	_		FARIZONA
AFFROVAL DATE:	<u> </u>	OIL&G		VATION COMMISSION

APPLICATION TO DRILL OR RE-ENTER

FORM NO. C-3

FILE TWO COPIES

OPERATOR SHALL OUTLINE THE DEDICATED ACREAGE FOR GEOTHERWAL RESOURCES WELLS ON THE PLAT. A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVETOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE CONVISSIGN SELL. 5.0% ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. 15 THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMEN OR OTHERWISE? TES _______ NO ______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION ______ THE ANSWER TO QUESTION FOUR IS "NO". LIST ALL THE OWKERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Owner T8N-R31E Sec. 15 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Position Geologist Phillips Petroleum Date 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 500 2640 2000 1500 1000 PROPOSED CASING PROGRAM Sacks Cement Cementing Depths Bottom Size of Casing Grade & Type Top Weight Plugged at bottom and 6" hole to T.D. Install 1" PVC pipe to T.D. filled with water. Measure temperature ther in. Plug and abandon within .a.

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NATIONA Waters 2573 $G_{\mathcal{S}}$ JEEP CH Loco Knoll 7.5' 26

9



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

PHILLIPS PETR	OLEUN COMPANY	•		<u> </u>
To:(or	ERATOR)			
to drill a well	to be known as			
	5 FEDERAL			
	NAME)			
located 1740' FROM SOUTH LINE & 2620' FROM	EAST LINE (SE NI	s sv)		
located 1/40 FRUM SOUTH BLAND IN SUR			•	
Section 15 Township 8 NORTH Range 31	BAST ,	APACHE	_County,	Arizona.
	IA			of said
Section, Township and Range is dedicated to this	well.			
Said well is to be drilled substantially as out in full compliance with all applicable laws, statut	lined in the attache es, rules and regul	d Application a ations of the S	nd must late of Ar	oe drilled izona.
Issued this 10th day of August		, 19. 82		
	OIL AND GAS	ONSERVATIO	V COMM	ISSION
	By RC	1c//w	VW	
		EXECUTIVE SECRE	IART	

PERMIT

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822

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

RECEIPT NO. 2297
API NO. 02-001-20270

5

RECEIVEL

Operator Phillips Tederal State or In USDA - F Location T.7N., F Sec. TWP-stange of	Petrol	Peoper eum Co	ompan	DESIG Plug Back DESIG	MATE	Same Reservo ION OF W	TION RE COMPLET IF ELL AND	PION: Different Reservoi		Oil Oil	rog	O Gas [& G CONS. CO
perator Phillips Ideral, State or In USDA - F Incention T.7N., F Idec. TWP-stange of	Petrol	eum C	ompan	DEEC	RIPT	Reserve ION OF W			<u>. </u>	Oil		Gas	Dry 🔲
Phillips Phillips Pderal, State or In USDA - F Location T.7N., F Sec. TWP-stange of	orest S	Number			RIPT		ELL AND	LEASE					
Phillips Tederal, State or In USDA - F Location T.7N., F Location T.7N., F	orest S	Number		у		1 2							
USDA - F USDA - F Location T.7N., F Sec. TWP-stange of	orest S	Number				1	Address 655 Ea	ist 45	00 Sc	outh,	Murr	ay, UT	84107
T.7N., R	.27E.,				If fee 1	ease '	Well Number A-6	er F	Ten	R eservol npera	ture	gradier	nt well
		Sec.	15, S	E SE N	E		Count Ap	y Dache					
Date smadded	r Block & S	urvey											
10/6/82	1	Date tota	al depth 7/82	reached	Dat	te complete duce	d, ready to	(DF	tion 082	RT or (r)	hd flang	1000
Total depth	i	P.B.T.D.			Sin	gle, dual or	r triple com	pletion?		If the furni plotic	ah sepa	iual or trig	i for each com-
Producing interval	(e) for this	e complet	lon				Rotary too		interva	1)	Cable	tools used	(interval)
Was this well dir	ectionally di	rilled? W	Van dire	ctional au	LASA I	nade?	Was copy o		onal #ur	707	Date	filed	
Type of electrical	or other is	ogs run ((check k	v folfi ego	vith th	na commentes	don)				Date	filed	
						CABING I							
Casing (report a									<u> </u>		acks or	ment 1	Amt. pulled
Purpose	Size ho	ie drilled	B1a	re cestag :	e et	Weight	(16./11_)		h set	_			
			_										
	_												
	LUBING R	ecoph						ī	INER I	RECORI	<u> </u>	<u>'</u> .	
Size	Depth set		Packer s	et at	Blso		Top		Bottom		Back	cement	Boreen (ft.)
in.		ft.		n.		in.		Rt.		11			<u> </u>
	PERF	ORATIO	N RECO	RD							CEME		EEE RECORD
Number per ft.	Size &	type		Depth Ir	terval	ł	Am't.	kind of	materi	11 200E		Depti	Interval
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	!										<u>.l.</u>		
Late of first pr	oduction	1	Product	ng method			ring, gas 11		nping-	f pump	ng, sho	w stae &	type of pump:)
				Lau			Gas prod	Andre	2 m2 1	Water	orod du	ring test	Oil gravity
Date of text	ira, teated	Cho	ke sise	Oil I	iroa. q	luring test bbis.	GEE SIGN		MCP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	bble.	*API (Cor
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CERTIFICATE.	I, the under												
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Philli report was pres	psPetri		rvision ar				Sign	OIL 6	GAS	STATE CONSE	OF AF	UZONA ION COM	

(Complete Reverse Side)

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		DETAIL OF	FORMATIONS PENETRATED
Formation	Тор	Bottem	Description*
*See attach	ed litholog	c log	
		!	

[&]quot;Show all important mones of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, explice used, time tool open, flowing and shut-in pressures, and recoveries.

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arisons Oil & Gas Conservation Commission not later than thirty days after project completion.

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RECEIVED

DEC 1682

0 & G CONS. COMM.

Sant fare		. ((
Collar Elevation Total Footage 320 Overall Core Recovery Logged By Statuce Sand MITALLIZATION	Ш																			
PETROLEUM CO. Seaa. OGIC LOG	ROCK DESCRIPTION, ALTERATION AND REMARKS	Allowial Float Material composed mostly of basalt, tuft, &	cindes		Augite and Lahandrite, minol force-magatics and litt	Basalt, medium brown to median gray, moderate westhering,	Mico crysts of Audite, homatite caster from Olevane.	Rosalt, Anch gay, Auxito microcusts and minor amounts	of Heactite casts.											
	TYPE TYPE					-						+				-				
A	TO 71. OF		20		160		260		320	+	-	-	-	-	-	-	-	-		
Hale Ne Ceerdinates Type Drill Bit Size	FROM	0		20		160	7	260	iv.					-			-			

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PPROVED BY:

BEFORE SINDING IN THIS FORW BESURE THAT TOU HAVE GIVEN ALL INFORMATION REQUESTED. WUCH UNNECESSARY CORRESTOND-ENCE VILL THUS BE AVOIDED.

NOTICE:

•	O. FOR PERMIT GEOTERMAL RE	TO DRILL OF SOURCES WELL	RE-ENTER OLD BELL ED
APPLICATION TO DELL	1 CI		
ME OF CUMPARY OR OPERATOR			
nillips Petroleum Company			114 ab STATE
DRESS 655 E 4500 S	Salt Lake	City	Utah STATE
LLING CONTRACTOR Southwest Drilling Co			
RESS 690 N. Industrial Rd.	St George U	tah 84770 Well and lease	
ERAL, STATE OR INDIAN LEASE NUVER	ER, OR IF FEE LEASE,	WELL NUMBER	ELEVATION (GRGUND)
eral, State on Indiana. E of Lesson - Forest Service	<u> </u>	A-6	9082 t
DEST DISTANCE FROM PROPOSED LOCAT		DISTANCE FROM PRO COMPLETED OR APPL	POSED LOCATION TO REAREST DRILLING; LED-FOR WELL ON THE SAME LEASE:
PROPERTY OR LEASE LINE:	FEET		FEET
DER OF ACRES IN LEASE:		NUMBER OF WELLS OF COMPLETED IN OR D	N LEASE, INCLUDING THIS WELL. RILLING TO THIS RESERVOIR:
			1DD RESS
L LOCATION (GIVE FOOTAGE FROM SEC 10 W 2000'S fr NE cor SEC 10 AND RESERVOIR (IF NILDCAT, SO Temperature gradient we TANCE, IN NILES, AND DIRECTION F	. 10 1/N=R/	COURTY Apache C	Ole 18th
nknown at present	Rotary	-	September 1, 1982
STATUS	ORGANIZATION REPO	RT OR ATTACRED	FILING FEE OF \$25-00
OUNT WARKS:	ON FILE		
ERTIFICATE: I. THE UNDERSIGNED. 1	UNDER THE PENALTI OF F	PERJURY, STATE THAT I	Geologist
	UNDER MT SUPERVISION		SEAT THE FACTS STATED THEREIK ARE THE
PERVIT KUNBER: 82= SPROVAL DATE: 8-10- RG. 7	82 Jana	i .	STATE OF ARIZONA AS CONSERVATION COMMISSION LICATION TO DRILL OF RE-ENTER

FILE TWO COPIES

FORK NO. C-3

. OPERATOR SPACE GUTLINE THE DEDICATED ACREAGE FOR CEOTRERWAL RESGERCES WELLS ON THE PLAT. A RECISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR RECISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSIGN SHALL SHOW ON THE PLAY THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. _ ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? YES 1F THE ANSWER TO QUESTION FOUR IS "NO" HAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY CONVUNITIZATION AGREENENT OR OTHERWISE? TES ______ NO _____. IF ANSWER IS "TES; TYPE OF CONSOLIDATION ______ IF THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWKERS AND THEIR RESPECTIVE INTERESTS BELOW: nenwC Land Description USDA - Forest Service T7N-R27E Sec. 15 CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and Position O Geologist Company Phillips Petroleum 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor 330 660 990 1320 1650 1980 2310 2640 2000 Certificate No. 1500 1000 500 PROPOSED CASING PROGRAM Size of Casing Weight Grade & Type Bottom Cementing Depths 6" hole to T.D. Install 1" PVC pipe to T.D. filled with water. Sacks Cement Plugged at bottom and

Measure temperature therein.

DEFRATOR SPEEL OUTLINE THE DEDICATED ACREAGE FOR GEOTHERWAL RESGURCES WELLS ON THE PLAT. A RECISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNISSION SHALL . ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? YES IF THE ANSWER TO QUESTION FOUR IS "NO". BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT OR OTHERWISE? YES _______ NO ______. IF ANSWER IS "YES! TYPE OF CONSOLIDATION If the Answer to Question four is "NO", List all the owners and their respective interests below: Land Description Owner T7N-R27E Sec. 15 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and Position Geologist Company Phillips Petroleum 8-5-82 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor 6 Certificate No. 330 660 990 1320 1650 1980 2310 1000 500 1500 2000 PROPOSED CASING PROGRAM Cementing Depths Sacks Cement Bottom Size of Casing Weight Grade & Type Top Plugged at bottom and 6" hole to T.D. Instal 1" PVC pipe to T.D. filled with water. Measure temperature ther 'n.

Plus sod ab

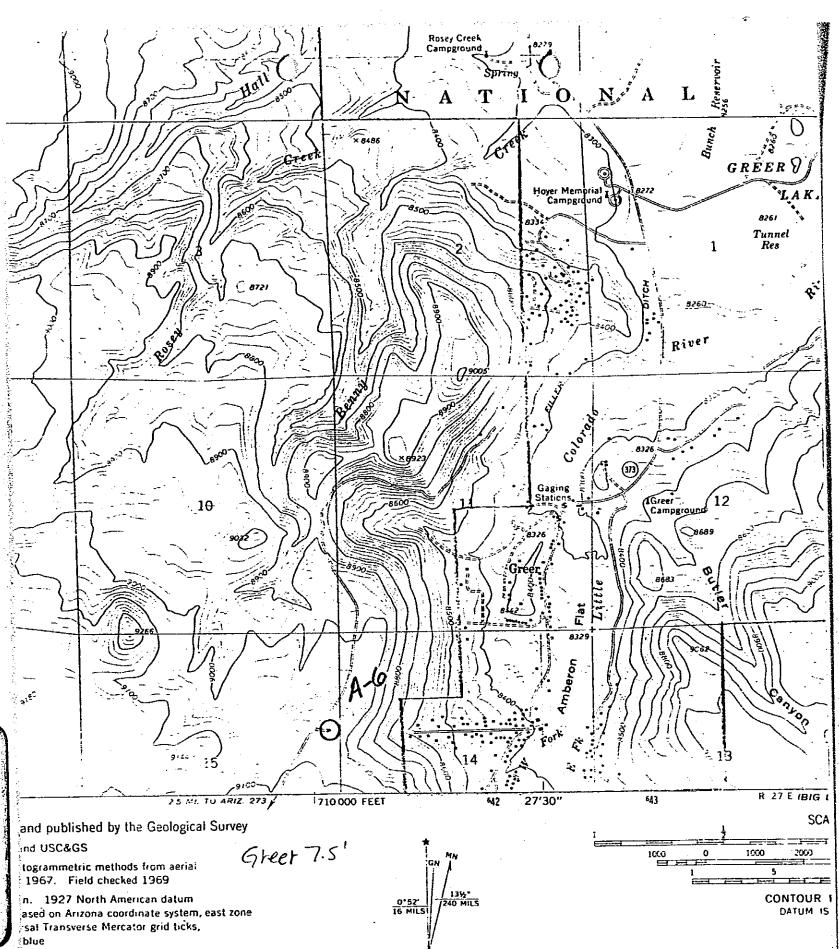
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2'30" T. 8 N. 3767 3766 1 100 000 FEET a600 Greer 7.5' 3764

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NAMES AND ADDRESS OF THE PERSON OF THE PERSO

- Artestation (1884)



ESTM COID

hes indicate selected fence lines.

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH N FOR SALE BY U.S. GEÖLOGICAL SURVEY, DEN A FOLDER DESCRIBING TOPOGRAPHIC * Ω



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

				. :			
To:	·	<u> </u>	P		ROLEUM COMPANY		
				(0	PERATOR)		:
			1	o drill a well	to be known as	.	
	•			A	-6 FEDERAL		
				(WEL	L NAME)		
located_	2000	FROM NO	MTH LINE	& 220' FROM	EAST LINE (ST	e se me)	
Section_	15	Towns	hip 7 NOR 1	TH Range 2	7 BAST	APACHE	County, Arizona.
The				1	la .		of said
Section,	. Townsh	ip and R	ange is de	dicated to thi	s well.		
Sa in full (id well i complian	s to be d	rilled subsi all applicab	antially as ou le laws, statu	itlined in the atta ites, rules and re	ched Application an egulations of the Sta	d must be drilled te of Arizona.
İs	sued this	10th	day of	August		, 19. 82	
		e de la companya de l				S CONSERVATION	
. * * -	·				Ву	a. Uforon	NCC ARY

PERMIT

No

823

RECEIPT NO.

API NO. 02-001-20271

State of Arizona

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

RECEIVED

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Type of electr	ical o	r other k	ogs run	(che	ek loga	filed wi	ith th	e commi	sion))				D	ate fil	ed.			
								CASING											
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Tubing press	ure	Casing	pressi	ur e	Cal'te	drate o	f Pro	Oil		bbis.	Ga.		KCL	Wate).T	bble.	G	u oll	ratio
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(Complete Reverse Side)

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Show all important seems of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, exchien used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion reported well log shall be filed with the State of Arisona Of A Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

RECEIVED

UEC 1.1982 0 & G CONS. COMM.

PHILIPS PETROLEUM CO.

Collar Elevation
Total Footage 3%0

SECTION DEPTH Basalt, dark gray, Microsoft of Augite or Phoiodere, mind + Frecomagnetic minemis, 15% Quarte GEOLOGIC LOG ROCK DESCRIPTION, ALTERATION AND REMARKS th looite Sheet Na. Date Started Date Completed 40% TO TO Tye Dra 2#0 340 240 **10**

APPLICATI	O. FOR PERMIT	TO DRILL C SOURCES WEL	OR REFERT L	ER .
APPLICATION TO DEFI		000.000	ME-INTER OF	p seif O
AME OF COMPANY OR OPERATOR	•.			
Phillips Petroleum Company				
DURESE 655 E 4500 S	Salt Lake	City .	U	tah STATE
PERSON DOS E 4000 3				
Southwest Drilling C	0			
DRESS 690 N. Industrial Rd	. St. George, Ut	ah 84770		
	DESCRIPTION OF	WELL AND LEASE		ELEVATION (GROUND)
EDERAL, STATE OR INDIAK LEASE KUUB	ER, OR IF FEE LEASE.	WELL NUMBER	İ	
USDA - Forest Service		A-7		8855 to KERREST DRIVING
DEEST DISTANCE FROM PROPOSED LOCAL		DISTANCE FROM PE COMPLETED OR APP	COPOSED LOCATI PLIED-FOR WELL	ON TO KEAREST DRILLING: ON THE SAVE LEASE:
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WHER OF ACRES IN LEASE:		NUMBER OF WELLS COMPLETED IN OR	ON LEASE, INC DRILLING TO T	LUDING TRIS WELL- HIS RESERVOIR:
LEASE, PURCHASED WITH ONE OR WOR PLS DRILLED, FROM WHOM PURCHASED: ELL LOCATION (GIVE FOOTAGE FROM SEC. 685'W 65'S fr NE cor Sec. 1ELD AND RESERVOIR (IF WILDCAT, SC.)	TION LINES) SECTION-10	COURTY	NE NE	DEDICATION (COMPLT WITE RULE G-105
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	·		L DDDOX DA	TE WORE WILL START
TOPOSED DEPTE:	ROTARY OR CABLE T	001.S	i i	mber 1, 1982
Inknown at present	ORGANIZATION REPO	RT	FILING FE	E OF \$25.00
OND STATUS	ON FILE	OR ATTACRED .	ATTACRED	
EVARES:			***************************************	
	•			
ENTIFICATE: I. THE UNDERSIGNED.	UNDER THE PENALTY OF F	PERJURY, STATE THAT	I AN THE GE	ologist
Phillips Petroleum THE Phillips Petroleum AD THAT THIS REPURT WAS PREPARED CRECT AND CONFLETE TO THE BEST O	COMPANY). AN UNDER MY SUPERVISION			
CERECT AND CONFLETE TO THE BEST O		& Jary	A DO	Wun)
	•	8-5-82		
a		DATE		

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION APPLICATION TO DRILL OF RE-ENTER

FILE TWO COPIES

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PEROVED BY:

EBUIT KUMBER:

TEROVAL DATE:

EFORE SENDING IN THIS FORM BESURE THAT YOU HAVE GIVEN ALL INFORMATION REQUISTED. MUCH UNNECESSARY CORRESPONDACE WILL THUS BE AVOIDED.

FORM NO. G-3

- OPERATOR SPALE GUTLINE THE DEDICATED ACREACE FOR GEOTFERWAL RESGURCES WELLS ON THE PLAT. . A RECISTERED PROFESSIONAL ENGINEER OR LAND SURVETOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSION SHALL 1.00 ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT WUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? YES IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY CONVUNITIZATION ACREEVED: THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWKERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description √ner T6N-R31E Sec. 4 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and beli**ef**. Position (Geologist Company ·Phillips Petroleum Date I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 2640 1500 1000 500 PROPOSED CASING PROGRAM Sacks Cement Bottom Cementing Depths Size of Casing Weight Grade & Type Plugged at bottom and 6" hole to TLD. Install 1" PVC pipe to T.D. filled with water. Measure temperature ther n. Plug and abandon within a year.

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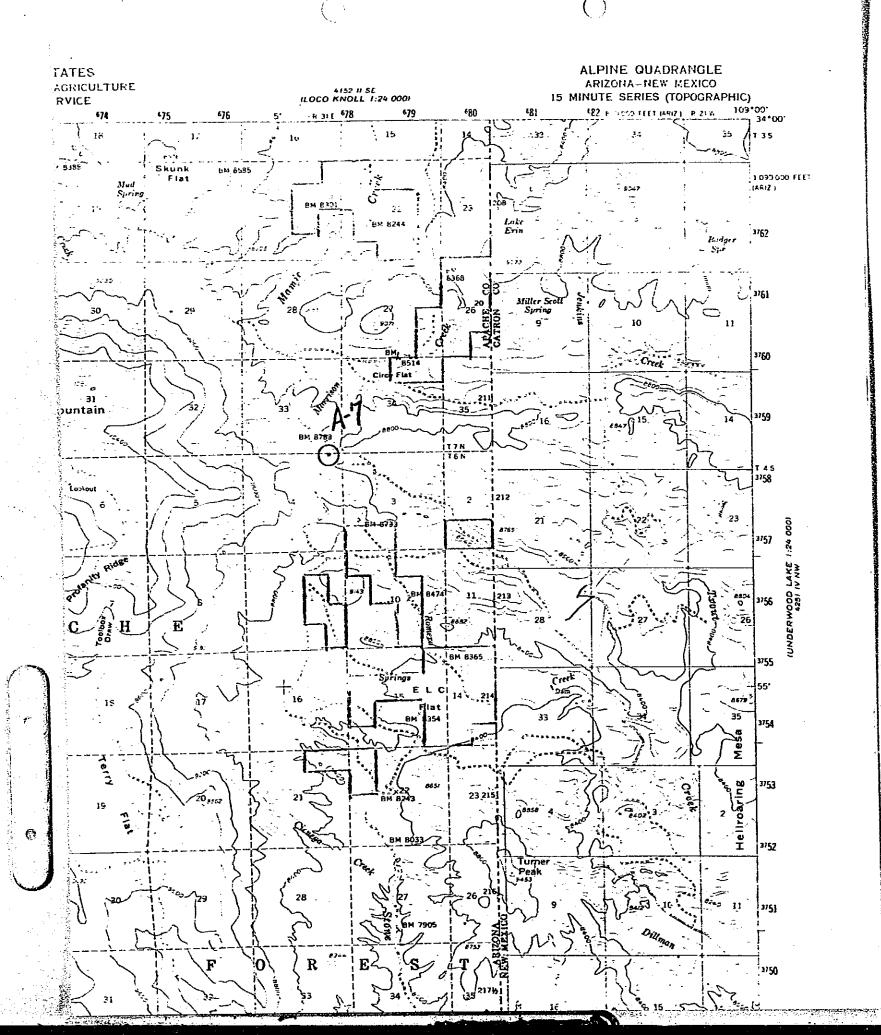
xBM 8244 × 88327 Escudilla Mountain

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Survey was

essection and the





PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

T _	PHIL	LIPS PETROLEUM CO	APANY	
To:		(OPERATOR)		
	to di	rill a well to be know	wn as	4.4 14
		A-7 FEDERA	L	
		(WELL NAME)		
located 65 FRO	M NORTH LINE & 685	FROM BAST LINE	(HE HE HE)	
•	Township 6 NORTH	Range 31 EAST	APACHE	County, Arizona.
The		NA		of said
Section, Township	and Range is dedica	ted to this well.		a cert
Said well is t	o be drilled substanti with all applicable l	ally as outlined in th aws, statutes, rules a	e attached Application and regulations of the	and must be drilled State of Arizona.
Issued this	10th day of	August	, 19 <u>8</u>	<u>2 .</u> .
		OIL AN	D GAS CONSERVATIO	ON COMMISSION
		Bv	Ra Ultar	ue-
			EXECU/FIVE SECR	ETARY

 N_{\bullet}

2297

API NO. 02-001-20272

PERMIT

RECEIPT NO.

824

Permit to Drill

State of Arizona

Oil & Gas Conservation Commission

FORM NO. 27

1

RECEIVED WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG O&G CONS. COMM DESIGNATE TYPE OF COMPLETION: Gas Dry on \square Plus Same Reservoir Wew X DESCRIPTION OF WELL AND LEASE Address 655 East 4500 South, Murray, UT 84107 Phillips Petroleum Company Field & Reservoir Federal. State or Indian Lease Number or name of lessor if fee lease Well Number Temperature gradient well USDA - Forest Service A-8 County Apache T.6N., R.29E., Sec. 36, SE SE NE Sec. TWP-stange or Block & Survey Date total depth reached Date spudded 9/18/82 9/20/82 Single, dual or triple completion? Total depth Cable tools used (interval) Rotary tools used (interval) Producing interval (a) for this completion To T.D. Was copy of directional survey filed? Date filed Was this well directionally drilled? Was directional survey made? Date med Type of electrical or other logs run (check logs filed with the commission) CASING RECORD Casing (raport all strings set in well-conductor, surface, intermediate, producing, etc.) Amt. pulled Sacks coment Depth set Size hole drilled Size casing sat Weight (lb./ft.) LINER RECORD TUBING RECORD Screen (ft.) Sacks cement Bottom Bise Top Depth set Packer set at Size ft. ACID, SHOT, FRACTURE, CEMENT SQUERZE RECORD PERFORATION RECORD Am't. & kind of material used Depth Interval Depth Interval Size & type Number per ft. INITIAL PRODUCTION Producing method (indicate if flowing, gas lift or pumping-if pumping, show size & type of pump:) inte of first production Oil gravity Oil prod. during test Gas prod. during test Water prod. during test Hrs. tested * API (Corr) MCF bbls. Gas-oli ratio Water Cal'ted rate of Production per 24 hrs. Tubing pressure Casing pressure MCF bbin Disposition of gas (state whether vented, used for fuel or sold): Phillips Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated the per true, correct any complete to the pest of my knowledge. November 29, 1982 STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION

Well Completion or Recompletion Report and Well Log

File One Copy

Form No. 6

(Complete Reverse Side)

SEXTERS!

(,)

Person No. 825

O

DETAIL OF FORMATIONS PENETRATED

	,	DEIAIL OF	Description ⁴
 Formation	Top	Bottom	Description.
 *See attach	ed lithologi	c log	
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^{*} Show all important source of perceity, datall of all cores, and all drill-steen tests, including depth interval tested, quahlon used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

RECEIVEDO

G

DEC - 1987

PHILLIPS PETROLEUM CO. O & G CONS. COMM.

Alpine, Acizona

Sheet No...
Dete Started
Date Completed

Hote No. A-8.

Total Footage #20 Overell Core Recovery Logged By Steven Avent Yave Coller Elevation

'			1		Overell Core Recovery
Type Date			1	GEOLOGIC LOG	Logged By Flewer Breest Lass
200		1			METALLIZATION SECTION DEPTH
TOP	2	8	7,6	ROCK DESCRIPTION, ALTERATION AND REMAINS	
0				Sandstone, Medium brown, 40% Feldspor, 30% Volcamis,	
	3			10% Avaite & Frece magnetitic minerals , 20% Quarte	
3	5			Rusalt, Sandstone, Tuff	
2				Busalt, Buck amy Jesicular, with 15% beethite, 30%	
	04/			Tuff, gat rellow gay	
0#1				Resalt. Buck gray, vesticular. With Augite phrancests.	
	220			Pholo lase micocrysts, & minor gotteite	
220				- 1	
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APPLICATION TO DRILL	· 너	·	IL-THILL OF	
AME OF COMPANT OR OPERATOR				
Phillips Petroleum Company				
	Salt Lake	City	U	tah STATE
DURESS 655 E 4500 S	Jaro Lane			
RILLING CONTRACTOR Southwest Drilling Do.				
DDRESS 690 N. Industrial Rd.,	St. George, UT	84770 WELL AND LEASE	· · ·	
ADAR VILLE		WELL NUMBER		ELEVATION (GROUND)
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<u> </u>	FEET			
UNBER OF ACRES IN LEASE:		NUMBER OF WELLS ON COMPLETED IN OR DR	LEASE, INC	BIS RESERVOIR:
	NAVE	<u> </u>	1 DD RESS	
F LEASE, PURCHASED WITH ONE OR WORP ELLS DRILLED, FROM WHOM PURCHASED:				
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FIFID AND RESERVOIR (IF WILDCAT, SO	STATE	Apache Count		
Temperature gradient we	1 1	OST OFFICE	<u>, </u>	
)]STANCE, IN MILES, AND DIRECTION	· · · · ·			
	·		<u> </u>	
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TRATOR SHALL GUTLINE THE DEDICATED ACREAGE FOR GEOTHERWAL RESOURCES MEILS ON THE PLAT. REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSION SHALL. ON ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? TES IF THE ANSWER TO QUESTION FOUR IS "NO" HAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT OR OTHERWISE? TES_______ NO_____. IF ANSWER IS "YES; TYPE OF CONSOLIDATION IF THE ANSWER TO QUESTION FOUR IS "NO". LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Owner T. 6 N., R. 29 E., Sec. 36 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and beli**ef**. Position Geologist Company Phillips Petroleum. August 5, 1982 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 2640 1000 500 PROPOSED CASING PROGRAM Cementing Depths Sacks Cement Bottom Size of Casing Grade & Type Weight 6" hole to TLD. Install 1" PVC pipe to T.D. Plugged at bottom and filled with water.

Measure temperature theman.

Plug and abandon within .a year.

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Allpine GEOLOGICAL SURVEY

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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To:			PHILL	IPS PETROLEUM COM	PANY	
10:				(OPERATOR)		
			to dr	ill a well to be knov	vn as	
		<u> </u>		A-8 FEDERA	L	
				(WELL NAME)		
located_	25871	FROM NO	RTH LINE & 25	0 FROM EAST LINE	(SE SE NE)	
Section_	36	Towns	nip 6 NORTH	Range 29 EAST	APACHE	County, Arizona.
The				NA NA		of said
				ed to this well.		
Sa in full d	id well i complian	s to be di ce with a	rilled substantio	ally as outlined in the ws, statutes, rules a	e attached Application and regulations of the S	and must be drilled tate of Arizona.
lss	sued this.	10th	day of	August	, 198	2
		·			GAS CONSERVATIO	
				Bv	K. M. Epolice	or the same
					EXECUTIVE DIRE	CTOR
PERMI						

State of Arizona Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

PERMIT

RECEIPT NO.

A.P.I. NO.

2297

02-001-20273

RECEIVED

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9/20/8	2		9/22	/82			- 1			310	1 +0	45-i- i- 4	Augh ou i	ripk	completion.
otal depth 345		P.1	3.T.D.		1	engie, au	al or	riple com	bracton:		l fe	rnish se tion.	parate reg	xxrt	for each com-
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Casing (raport	nil at	Inge set	n walk	-conductor	r. surface			producina	eta.)						
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		···					1	Gas prod	Andre	tout	Wate	r prod.	during te	rt 1	Oil gravity
Date of test	Hrs.	tested	Choke	, size	On proc	i. during b	ble.	GES prov		MCF			PPP		* API (Co
	re	Casing p	ressure	Cai'te	drate of l	Pro- Oil		· · · · · · · · · · · · · · · · · · ·	Gas			Water			Gas-oli ratio
Tubing pressu								pple	<u> </u>		MCF	<u></u>	999	<u>. j</u>	
		tate whet	ner ven	.eg, U 660. I	int inei 0	. 			=						
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CERTIFICAT Phill report was p	E: I. th	Petrol	eum (ompany	, .	/	1 and	that I am	oll.	true, co	said correct a	B OF A	ARIZONATION CO	OMI	port; and that ti of my knowled

(Complete Reverse Side)

w

Bottom

DETAIL OF FORMATIONS PENETRATED

Formation Top *See attached lithologic log

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil A Gas Conservation Commission not later than thirty days after project completion. thirty days after project completion.

Form No. 4

^{*} Show all important source of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, eachion used, time tool open, flowing and shut-in pressures, and recoveries.

RECEIVE

OH E

O & G CONS. CUMM.

Total Z

PHILLIPS PETROLEUM CO. Alpine, Arizona

Total Footage 340 Coller Elevation

SECTION DUTH Overell Core Recovery
Logged by Level Perst Kenn GEOLOGIC LOG Sandstone, medium brown, 40% ÷ 70% Basatt, clark gray with Tuff, white to pake gover a With Voleanies 20% Questes ROCK DESCRIPTION, ALTERATION AND REMARKS Celadorite Steet No.
Date Started
Date Completed 30% Ancheite 14 FT. OF CORE 280 09 8 280 340 2 S Type Date Bit Sine 130 100 0 8 09

and Market

APPLICATION TO DR	TO FOR PERMIT GEO ERMAL RE	SOURCES WEL	RE-ENTER OF	
A) I III I				
AME OF COMPANY OR OPERATOR				
Phillips Petroleum Compan	у			Jtah STATE
DDRESS 655 E 4500 S	Salt Lake	City .	L	Jean
Southwest Drilling Co.				
DURESS 690 N. Industrial Ro	I., St. George, Utah	84770	•	
	DESCRIPTION OF	WELL NUMBER		ELEVATION (GROUND)
EDERAL, STATE OR INDIAN LEASE NUMBER OF LESSON		A-9		8310'
USDA - Forest Service	AT10X		ROPOSED LOCAT	ION TO NEAREST DRILLING: L OK THE SAWE LEASE:
EAREST DISTANCE FROM PROPOSED DE- O PROPERTY OR LEASE LINE:	FEET			FEE
UNBER OF ACRES IN LEASE:		NUMBER OF WELLS COMPLETED IN OR	ON LEASE, IN	CLUDING TRIS WELL. THIS RESERVOIR:
DEDAR OF WINDER TO THE TOTAL OF		CORPLETED IN OR		
F LEASE, PURCHASED WITH ONE OR WELLS DRILLED, FROM WHOM PURCHASE	DRE NAME		ADDRESS	
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940'W 2798'S fr NE cor. S	ec. 5 1 15M., K	COUNTY		
Temperature gradient	we l	Apache Cour	nty	
1 emperature gradient	FROM NEAREST TOWN OR P	OST OFFICE		·
PROPOSED DEPTE:	ROTARY OR CABLE T	001.5	Septe	mber 1, 1982
Unknown at present	Rotary ORGANIZATION REPO	RT		EE OF \$25.00
BOND STATUS	OK FILE	OR ATTACHED	ATTACRE	
AVOURT REMARKS:				
	•			
			TI AN THE G	eologist
CERTIFICATE: I. THE UNDERSIGNED	UNDER THE PERALTI OF	PERSONAL STATE TOR	TOEN BY SAID	COMPANY TO WAKE THIS REP
OF THE Phillips Petrole	on ugner wy supervision	AND DIRECTION AND	THAT THE FA	CIS STATED THEREIN ARE T
AND THAT THIS REPORT WAS PREPARE CORRECT AND COMPLETE TO THE BEST	OF RI INUNICUOUS	2 Jan	Ma	Soun _
		\$1 G.X.A.7	URE	
		August 5,	1982	
		DALE		<u> </u>
82	6	_		
APPROVAL DATE: \$-10	0-82	- , OIL &	STATEO	F ARIZONA VATION COMMISSION
P.C.	ytana	1 '		DRILL OR RE-ENTER
APPROVED BY:	0	-		TWO COPIES
BEFORE SENDING IN THIS FORM BE	SURE THAT YOU HAVE GIVE H UNNECESSARI CORRESPOR	FORM NO. 6-3		
ENCE MILL THUS BE AVOIDED.				Note that the second second

- OPERATOR SHALL GUTLING THE DEDICATED ACREAGE FOR GEOTHERMAL RESGURCES WELLS ON THE PLAT. . I REGISTERED PROFESSIONAL ENGINEER OR LAND SURVETOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNISSIGN SHALL 1800 ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT OR OTHERWISE? TES_______ NO______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION IF THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Owner T. 5 N., R. 31 E., Sec. 5 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and beli**ef**. Position (Geologist Phillips Petroleum. August 5, 1982 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 PROPOSED CASING PROGRAM Cementing Depths Sacks Cement Size of Casing Grade & Type Weight Bottom

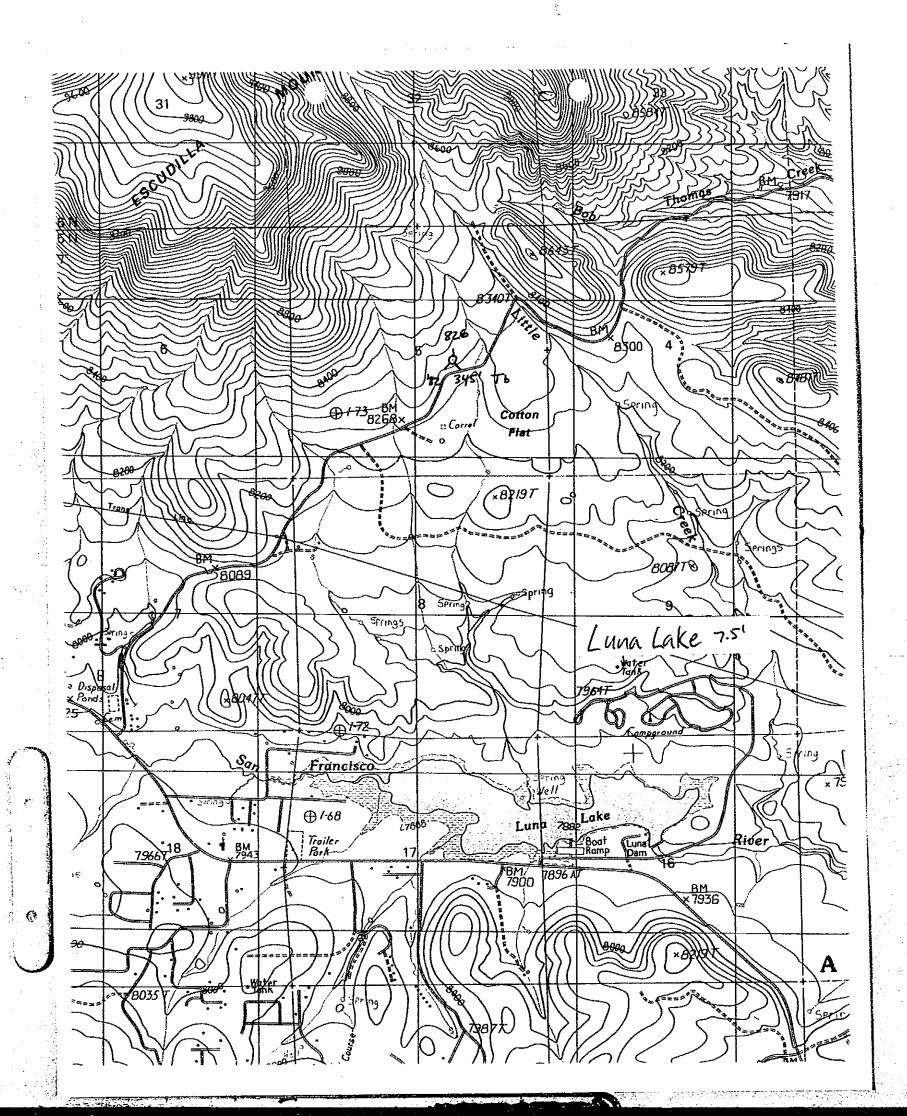
6" hole to T.D. Install 1" PVC pipe to T.D.

Measure temperature ther

Plug and abandon within .a year.

Plugged at bottom and

100125**22**



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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To:	PHIL	(OPERATOR)	ANI	
	to d	rill a well to be know	n as	
		A-9 FEDERAL		
		(WELL NAME)		
located	2798' FROM NORTH LINE & 1	940' FROM EAST LINE	(NE NW SE)	
Section_	5 Township. 5 NORTH	_Range31_EAST,	APACHE	County, Arizona.
The		· NA		of said
	, Township and Range is dedica		·	
Sa in full (nid well is to be drilled substant compliance with all applicable	ially as outlined in the aws, statutes, rules an	attached Application d regulations of the S	and must be drilled State of Arizona.
ls	sued this 10th day of	August	, 198	82
		OIL AND	GAS CONSERVATIO	ON COMMISSION
		Ву	EXECÛTIVE DIRE	ECTOR
DEDMI	00826			

PERMIT

RECEIPT NO.

A.P.I. NO.

2297

02-001-20274

FORM NO. 27

State of Arizona Oil & Gas Conservation Commission

Permit to Drill

RECEIVED 1 1982 WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG O & G CONS. COMM. DESIGNATE TIPE OF COMPLETION: on 🗌 New Well DESCRIPTION OF WELL AND LEASE Address Operator 655 East 4500 South, Murray, UT 84107 Phillips Petroleum Company Field & Reservoir Federal. State or Indian Lesse Number or name of lessor if fee lesse Well Number Temperature gradient well A-10 USDA - Forest Service County Location Apache T.5N., R.30E., Sec. 22, SE SE SE Sec. TWP-stange or Block & Survey Date total depth reached Date spudded 9/18/82 9/16/82 Single, dual or triple completion? Total depth P.B.T.D. Cable tools used (interval) Rotary tools used (interval) Producing interval (a) for this completion To T.D. Date filed Was this well directionally drilled? Was directional survey made? Date filed Type of electrical or other loge run (check loge filed with the commission) CASING RECORD Casing (report all strings set in well-conductor, surface, intermediate, producing, etc.) Amt. pulled Sacks coment Depth set Size hole drilled Size casing set Weight (lb./ft.) Ригрове LINER RECORD TUBING RECORD Screen (ft.) Sacks coment Bise Bottom Top Packer set at Size Depth est ft ft. ACID, BHOT, FRACTURE, CEMENT SQUEEZE RECORD PERFORATION RECORD Depth Interval Am't. & kind of material used Depth Interval Size & type Number per ft. INITIAL PRODUCTION Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) bate of first production Choke size | Oil prod. during test | Gas prod. during test | Water prod. during test | Oil gravity * API (Corr) MCF bble. Gas oil ratio Cal'ted rate of Pro-duction per 24 hrs. Water Gas Tubing pressure Casing pressure **Pble** MCF bbis. Disposition of gas (state whether vented, used for fuel or sold): Phillips Petroleum Company, and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the focus stated the sin are true, correct and famplifie to the best of my knowledge. November 29, 1982 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log File One Copy

(Complete Reverse Side)

Form No. 4

827

Pennid No

G1332950

n market etter state

DETAIL OF FORMATIONS PENETRATED **Formation** Bottom Top *See attached lithologic log

INSTRUCTIONS:

onganing general was <mark>kijasa</mark> ja na ^ja navi jam zajo e

Attach drillers log or other acceptable log of wall.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil a Gas Conservation Commission not later than the try days after project completion.

Form No. 4

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[&]quot; Show all important some of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, quality most, time tool open, flowing and shut-in pressures, and recoveries.

CHAISCEN

C & G CONS, COMM.

Hoto No. A=10 Coordinates

Type Drift

9E0

PHILLIPS PETROLEUM CO. Alpine Arizona Sheet No.
Date Started
Date Completed

Overall Core Recorary
Logged by Plance Buset Hass Collar Elevation
Total Footage 500

SECTION DUTTH 50% Sandstone, 20% Basalt, 20% Brown Chay, 10% Tuff Light - medium brown. 45% Feldsper, 30% Vollani framents, 15% Quarte, 10% Augite & Forto-magnetic BOCK DESCRIPTION, ALTERATION AND REMARKS
60% Dack-brown Soil, 40% Dack-gray Besalt micacusts of Physiciase & Hematite ack gray & appointed & with GEOLOGIC LOG minerals , poorly comented with Califte Augite Basattid castes Sandstone TYPE 2.8 2.8 460 460 500 ٤ 20 140 Bit Sine FROM 20 140 0

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	O. FOR PERMIT	TO DRILL (OR RE-ENT	IER .	-
APPLICATION TO DRILL	GEOT TRIMAL RE	SOURCES WEL	RE-LATER OF		
AME OF COMPANY OR OPERATOR					
Phillips Petroleum Company					
DURESS 655 E 4500 S	Salt Lake	City .	<u>U</u>	tah STATE	
833 E 4300 3					
RILLING CONTRACTOR Southwest Drilling Compan	ıy				
INDRESS 690 N. Industrial Rd.	, St. George, Utah	84770			
	DESCRIPTION OF	MEET WAS TEXSE		ELEVATION (GRGUND)	
EDERAL, STATE OR INDIAN LEASE NUMBER	R. OR IP FEE LEASE.	WELL NUMBER		8730¹	
USDA - Forest Service		A-10	ROPOSED LOCATI	ON TO NEAREST DRILLIN	G:
EAREST DISTANCE FROM PROPOSED LOCAT O PROPERTY OR LEASE LINE:	10#	CONPLETED OR API	PLIED-FOR WELL	ON THE STAF TEXPE!	EÉT
	FEET		ON IFISE, IN	LUDING THIS NELL.	
UNBER OF ACRES IN LEASE:	COMPLETED IN OR	DRILLING TO 1	THIS RESERVOIR:	<u>`</u>	
F LEASE, PURCHASED WITH ONE OR WORL	HAVE		ADDRESS		
F LEASE, PURCHASED WHOM PURCHASED:					
595' N 555' W fr SE cor. Selected and reservoir (if nildcat, so Temperature gradient we distance, in wiles, and direction f	<u>с. 22 1Т.5N., R.</u> state) 11	COUNTY Apache	SE, SE, SE,	(COMPLY WITE RULE G-	
DISTANCE, IN WILES, AND DIRECTION				- CONT LITT CTIPE	
PROPOSED DEPTH:	ROTARY OR CABLE T	0015	Sept	September 1, 1982	
Unknown at present	ORGANIZATION REPO	RT		FILING FEE OF \$25.00	
BOND STATUS AVOURT	OK FILE	OR ATTACHED ATTACHED			
REWARES:					
	ALL DEVALUE OF E	DEPTHDY STATE THAT	TI AN THE GE	ologist	
OF THE Phillips Petroleum OF THE Phillips Petroleum AND THAT THIS REPORT WAS PREPARED CORRECT AND COMPLETE TO THE BEST OF	UNDER WY SUPERVISION				EPOF Trl
1 3		1 JUN	11/00	WWW/U	
= 		S1GKAT!	UNE		
	: .				
	Ÿ .	August 5			
		August 5		•	
PERMIT KUMBER: 827		August 5	, 1982	· ARIZONA	

APPROVED BY: _

BEFORE SENDING IN THIS FORM BESURE THAT YOU RIVE CIVEN AND INFORMATION REQUESTED. MUCH UNNECESSARY CORRESPONDENCE VILL TRUS BE AVOIDED.

LOTICE:

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APPLICATION TO DRILL OF RE-ENTER

FILE TWO COPIES

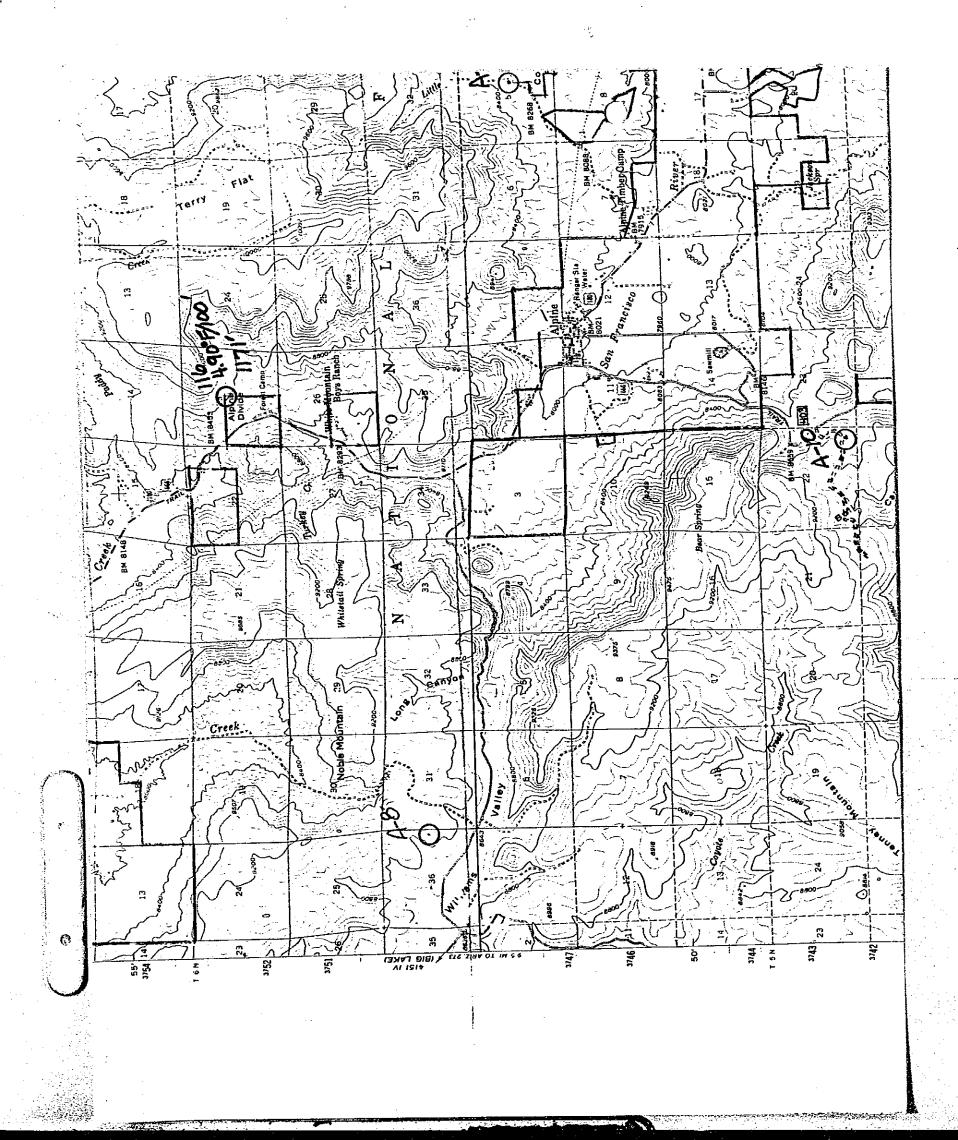
FORM NO. C-3

- 611-ATOR SHALL OUTLINE THE DEDICATED ACPEACE FOR GEOTHERNAL RESOLDCES WELLS OF THE PEAT. - A RECISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSIGN SHE I .OR ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. . ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE FLAT BELOW? "F THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY CONVUNITIZATION AGE
OTHER-ISE? YES _______ NO ______. IF ANSWER IS "YES: TYPE OF CONSOLIDATION _______. THE ANSHER TO QUESTION FOUR IS "NO", LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description Jwner T. 5 N., R. 30 E., Sec. 22 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete : the best of my knowledge and belief. Position (Geologist Company Phillips Petroleum August 5, 1982 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. A-10 Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 500 2640 2000 1500 1000 PROPOSED CASING PROGRAM Sacks Cement Cementing Depths Grade & Type Top Size of Casing Weight 6" hole to 1 D. Install 1" PVC pipe to T.D. filled with water. Plugged at bottom and filled with water. ther n. Measure temperature

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CANAL CONTRACTOR OF THE PARTY O

VERTICALERS



Sewage Dispasal Ponden (148EF) #9A58T 13 7981T

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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To:			PH	ILLIPS PET	ROLEUM CO	OMPANY		
						214 P 25		
			10	drill a well	to be kno	DWN 45		
					A-10 FEI	DERAL		
				(WEL	L NAME)			
located	595' I	ROM SO	OTH LINE	555' FROM	EAST LI	NE (SE SE	SE)	
Section_	22	_Townsl	nip_5 NORT	HRange_3(EAST ,		APACHE	_County, Arizona.
-1					NA			of said
Said in full co	d well is ompliance	to be di with a	illed substa Il applicabl	e laws, statu	utlined in t utes, rules	he attached and regulati	Application a ons of the Si	nd must be drilled tate of Arizona.
lss	ued this	10th	_day of	August	·		, 198	<u>2</u> .
				٠.		ND GAS CO		N COMMISSION
					Ву	EX	ECUTIVE DIREC	CTOR
PERMIT	r ac	127		·.			State of A	Arizona

RECEIPT NO. 2297

A.P.I. NO. 02-001-20275

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

O

RECEIVED DEC 1 1982 WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG O & G CONS. COMM. DESIGNATE TYPE OF COMPLETION: Gas Dry Same Reservoir on 🔲 New Well DESCRIPTION OF WELL AND LEASE Address Operator 655 East 4500 South, Murray, UT 84107 Phillips Petroleum Company Field & Reservoir Federal. State or Indian Lease Number or name of lessor if fee lease Well Number Geothermal gradient well A-11 USDA - Forest Service County T.5N., R.31E., Sec. 34, SW SW SW Apache Sec. TWP-stange or Block & Survey Date completed, ready to produce Date spudded Date total depth reached 9/16/82 9/14/82 Single, dual or triple completion? P.B.T.D. Total depth 480' Cable tools used (interval) Rotary tools used (interval) Producing interval (a) for this completion To T.D. Was copy of directional survey filed? Date filed Was this well directionally drilled? Was directional survey made? Date filed Type of electrical or other logs run (check logs filed with the commission) CASING RECORD Casing (report all strings set in well-conductor, surface, intermediate, producing, etc.) Amt. pulled Sacks coment Bise hole drilled Sise casing set Weight (lb./ft.) LINER RECORD TUBING RECORD Screen (ft.) Sacks coment Top Bottom Packer set at Sise Size Depth set ft. ft. in. ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD PERFORATION RECORD Depth Interval Am't. & kind of material used Depth Interval Number per ft. Sise & type INITIAL PRODUCTION Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Date of first production Oil gravity Water prod. during test Oil prod. during tost Gas prod. during test Date of test | firs. tested * API (Corr) bble. MCF bbls. Gas-oll ratio Cal'ted rate of Production per 34 hrs. Gas Water Tubing pressure Casing pressure bbls. MCF Disposition of gas (state whether vented, used for fuel or sold): Phillips Petroleum Company (company), and that I am authorized by said company) report was prepared under my supervision and direction and that the facts stated therein are true, correct and November 29, 1982 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION . Well Completion or Recompletion Report and Well Log File One Copy 828 Person! No.

- Constant

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Form No. 4

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED					
Formation	Top	Bottom	Destrice ⁴		
*See attac	hed litholog	ic log			

^{*} Show all important scores of perceity, detail of all cores, and all drill-stem tests, including depth interval tested, evahion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

65

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arisona Oil 2 Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

RECEIVED

£.3

DEC | 1982

O & G CONS. COMM.

Hoto No. A-/

PHILLIPS PETROLEUM CO.

Steet No.
Dete Sterted
Date Completed

GEOLOGIC LOG

Overall Core Recovery
Logged by Station Great Keva Total Footage 480

Coller Elevation

SECTION DEPTH Float Veteriul, Composed of Sandstone, Medston Hematite, minor amounts of a green mineral (cladonite?) 60% Dackgoog Busatt & 40% Bloodhad Andrite in brown Anderica a 60% lak from Tuff texture. With Anlesite, median gover-brown. ROCK DESCRIPTION, ALTERATION AND REMARKS Andesite, inclien brown to pocphycitic microcrysts Alluvium a 50% Medi Andreite. T W 1000 1000 400 480 460 100 20 2 Type Dell Dit Size 460 Ž. 400 20 0 3

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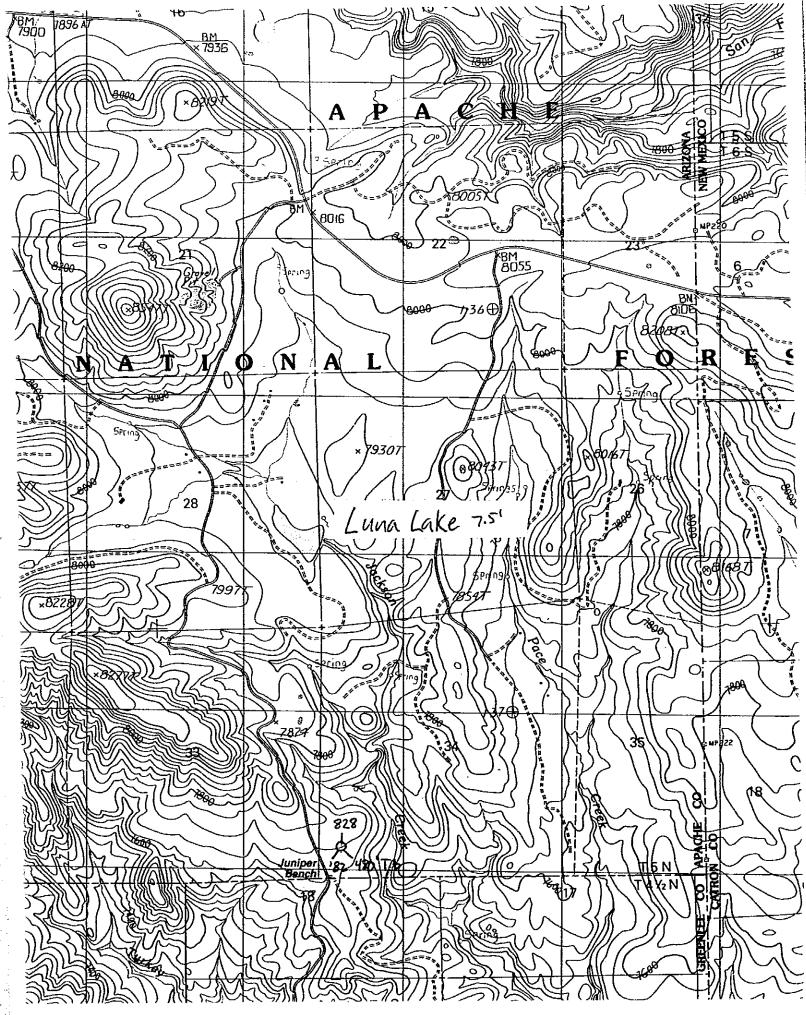
(management

NAME OF THE PARTY

APPLICATION I	TERMAT RE	SOURCES WELL	. (
APPLICATION TO DRILL CX	Mint in		RE-INTER O	rp #FIT C
E OF CUMPANT OR OPERATOR				
illips Petroleum Company			<u> </u>	Itah STATE
655 E 4500 S	Salt Lake	Tity		Jean
LLING CONTRACTOR				
Southwest Drilling Company	Cooper 11ts	sh 84770		
MESS 690 N. Industrial Rd., St	nescription of	WELL AND LEASE		
ERAL, STATE OR INDIAN LEASE NUMBER, OR		WELL NUMBER		ELEVATION (GROUND)
F OF LESSOR		A-11		77151
USDA - Forest Service		DACTABEE FROM DR	OFOSED LOCAT	ION TO KEAREST DRILLIN
REST DISTANCE FROM PROFOSED LOCATION PROPERTY OR LEASE LINE:		COMPLETED OR APP	LIED-FOR MEL	L ON THE SAVE LEASE:
	FEET		OK TELEF. TE	CLUDING TRIS WELL.
BER OF ACRES IN LEASE:		COMPLETED IN OR	ORILLING TO	THIS RESERVOIR:
NAME OF OR MUSE K	Y AVE	1	ADDRESS	
LEASE, PURCHASED WITH ORE OR WORE R LS DRILLED, FROM WHOM PURCHASED:		•		
			_	
L LOCATION (GIVE FOOTAGE FROM SECTION LI	KEZ) SECTION-TO	MNSHIP-RANGE OR BLO	CI IND SURVI	COMPLY WITE RULE G
L LOCATION (GIVE FOOTAGE FROM SECTION LI	1 .5N., 1	(.31E., 3ec. 34	SW,SW,SW	CONPLY WITE RULE G
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85' N 450' E fr SW cor. Sec. 34 ELD AND RESERVOIR (IF NILDCAT, SO STATE)	} 1.5N. ₃ 1	Apache Co		CONPLY WITE RULE G
B5' N 450' E fr SW cor. Sec. 34 FLD AND RESERVOIR (1F NILDCAT, SO STATE)	} 1.5N. ₃ 1	Apache Co	unty	
B5' N 450' E fr SW cor. Sec. 34 ELD AND RESERVOIR (IF NILDCAT, SO STATE) Temperature gradient well STANCE, IK NILES, AND DIRECTION FROM KEA	AREST TOWN OR PO	Apache Coust of office	unty	ATE WORK WILL START
B5' N 450' E fr SW cor. Sec. 34 ELD AND RESERVOIR (IF NILDCAT, SO STATE) Temperature gradient well STANCE, IN NILES, AND DIRECTION FROM NEW DROSED DEPTR: ORNOWN at present	TARY OR CABLE TO ROTARY	Apache Court Apache Court of office	IPPROI. D	ATE WORK WILL START
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Temperature gradient well Temperature gradient well Trance, in wiles, and direction from New New New New New New New New New New	TARY OR CABLE TO ROTARY OR POTARY OF CABLE TO ROTARY	COURTY Apache Court office	APPROX. D Septe	ate work will start ember 1, 1982 EE of \$25.00
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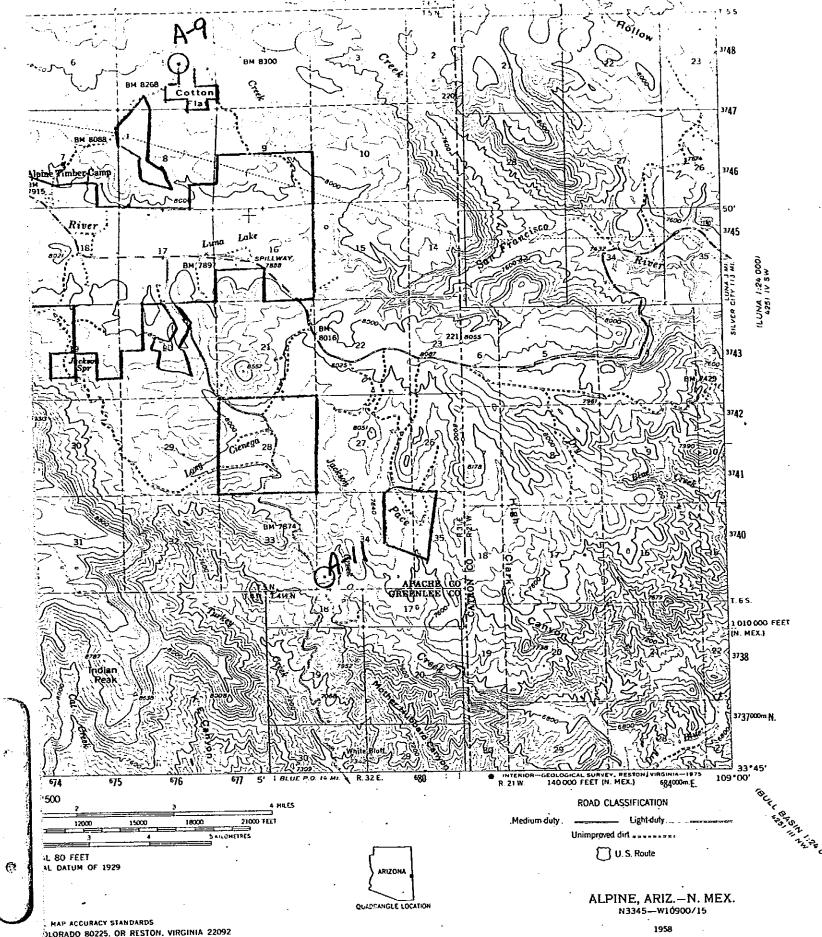
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OPERATOR SMALL GUILING THE DEDICATED ACPEACE FOR GEOTHERMAL RESOLUCIS WELLS ON THE PLAT. - A RECISTERED PROFESSIONAL ENGINEER OR LAND SURVETOR REGISTERED IN THE STATE OF ARIZONA OR APPROVED BY THE COUNTSSIGN SHALL 5.00 ON THE PLAT THE LOCATION OF THE WELL AND CERTIFY THIS INFORMATION IN THE SPACE PROVIDED. ALL DISTANCES SHOWN ON THE PLAT WUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. IS THE OPERATOR THE ONLY OWNER IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? IF THE ANSWER TO QUESTION FOUR IS "NO" BAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY CONVUNITIZATION AGREEVEN:
OR OTHERWISE? TES________ NO______. IF ANSWER IS "YES; TYPE OF CONSOLIDATION_______ " THE ANSWER TO QUESTION FOUR IS "NO", LIST ALL THE OWKERS AND THEIR RESPECTIVE INTERESTS BELOW: Land Description ner T. 5 N., R. 31 E., Sec. 34 USDA - Forest Service CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Position (Geologist Company Phillips Petroleum August 5, 1982 I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 330 660 990 1320 1650 1980 2310 1500 1000 500 2640 2000 PROPOSED CASING PROGRAM Sacks Cement Cementing Depths Size of Caring Grade & Type Top Weight 6" hole to T.D. Instal 1" PVC pipe filled with water. Plugged at bottom and to T.D. Measure term cature therein.



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DIORADO 80225. OR RESTON, VIRGINIA 22092
D SYMBOLS IS AVAILABLE ON REQUEST

AMS 4151 1-SERIES V798



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To:			PHI	LLIPS PETRO	LEUM C	OMPANY
			to	drill a well t	o be kr	nown as
				A~:	11 FED!	ERAL
				(WELL	NAME)	
located	685' F	ROM SOU	TH LINE &	450' FROM	WEST L	INE (SW SW SW)
	34	.Townsh	ip_5 NORTH	¹ Range 31	EAST	,APACHE County, Arizona.
_,				N	A	of said
				cated to this		
in full con	npliance	with a	l applicable	laws, statut	es, rule:	the attached Application and must be drilled and regulations of the State of Arizona.
Issue	d this	LUEN	day of	August		, 19 <u>_82</u> ,
						ND GAS CONSERVATION COMMISSION
					Ву	L. M. africare
					,	EXECUTIVE DIRECTOR
PERMIT	068	28			·	State of Arizona
		2402				Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

2297

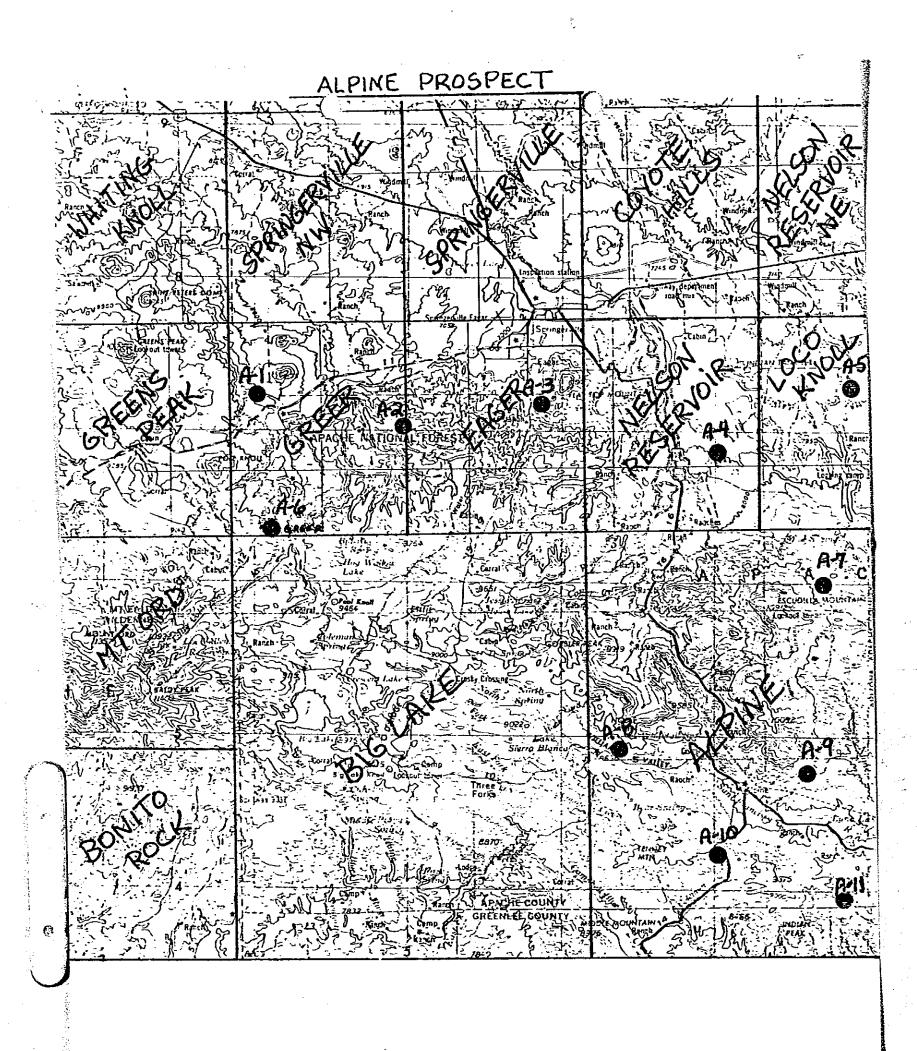
02-001-20276

RECEIPT NO.

A.P.I. NO.

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Fife Symington Governor

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Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows
Director and State Geologist

December 9, 1992

Mr. Gene Suemnicht 3038 Las Mesitas Drive Santa Rosa, California 95405

Dear Gene:

In response to your inquiry, I have enclosed a summary of wells in the Springerville area and the locations and geologic logs for Phillips' temperature gradient holes in the Nutrioso area. Unfortunately, the temperature data on the Phillips' wells is not in our files.

Let me know if I can be of further assistance.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Stevent. Rais

Enclosures





Fife Symington Governor

Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows
Director and State Geologist

October 9, 1992

Mr. Jim Lovekin Director of Geothermal Resources California Energy Company 900 North Heritage Drive Ridgecrest, California 93555

> Re: Phillips Petroleum Company's Alpine Prospect, Apache County, Arizona

Dear Mr. Lovekin:

I recently became aware that California Energy Company has acquired the data associated with the above referenced prospect.

Our file on this prospect contains the completion reports and lithologic logs for each of the wells in the project. I have enclosed a copy of the permit numbers and the table of locations for these wells. However, our file contains no temperature data. The temperature data must have been overlooked when Phillips forwarded the completion reports and lithologic data to this office.

I would very much like to complete our file on these wells and to that end I am asking that you kindly favor this Commission with the missing temperature data.

Sincerely,

Steven L. Rais

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

<u> Haradaran</u>

FHILLIPS 66

PHILLIPS PETROLEUM COMPANY

SALT LAKE CITY, UTAH 84107 655 EAST 4500 SOUTH PHONE: 801 263-3129

MINERALS GROUP Geothermal and Strategic Minerals Division RECEIVED

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DEC 1 1982

0 & G CONS. COMM.

November 29, 1982

Re: Completion

Alpine Prospect, Arizona

E-6022

A.K. Doss Oil and Gas Conservation Commission State of Arizona 1645 West Jefferson, Suite 420 Phoenix, Arizona 85007

Dear Mr. Doss:

Please find enclosed one copy each of well completion reports and lithologic logs for temperature gradient holes drilled in the Alpine-Springerville area of Apache County, Arizona. All of the holes have been properly plugged and abandoned.

Please hold all information concerning this prospect confidential. Thank you.

Jary

Gary F Chadburn Geologist

Ge010g15

GFC:sdm Enclosures

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August 10, 1982

Mr. Gary F. Chadburn Phillips Petroleum Co. 655 E. 4500 South Salt Lake City, Utah 84107

Re: Permits to drill - Alpine Prospect

Dear Mr. Chadburn:

Enclosed are approved applications for permit to drill, permits to drill, and receipt for eleven temperature gradient holes located on Apache National Forest lands.

If we can be of further service, please advise.

Sincerely,

R. A. Ybarra Enforcement Director

/os Enc.

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RECEIVED

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PHILLIPS PETROLEUM COMPANY

SALT LAKE CITY, UTAH 84107 655 EAST 4500 SOUTH PHONE: 801 263-3129 D & G CONS. COMM.

AUG 9 1962

MINERALS GROUP Geothermal and Strategic Minerals Division

August 4, 1982

Re: Applications for permits to drill - Alpine Prospect

Mr. A. K. Doss Oil and Gas Conservation Commission State of Arizona 1645 W. Jefferson, Suite 420 Phoenix, AZ 85007

Dear Sir:

Please find enclosed two copies each of Applications to Drill for eleven (11) temperature gradient holes located on Apache National Forest lands between Springerville, Arizona and Alpine, Arizona in Apache County. Also enclosed is a table of locations, area map, and topographic map copies depicting the specific locations of the holes.

A check in the amount of \$275.00 is included for the required filing fee of \$25.00 per hole. Drilling is scheduled to begin on September 1, 1982.

If there are any questions concerning the applications, please let me know. As in the past, I shall keep you informed of our activities.

Very truly yours,

Hauffalburn

Gary Chadburn Geologist

GFC:co Encl.

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RECEIVED AUG 9 1982

0 & G CONS. COMM.

PHILLIPS PETROLEUM COMPANY ALPINE PROSPECT TABLE OF LOCATIONS

A-1	T. 8 N., R. 27 E., Sec. 15, NE, SE, SW
A-2	T. 8 N., R. 28 E., Sec. 27, NE, SE, NW
A-3	T. 8 N., R. 29 E., Sec. 21, SE, NE, NE
A-4	T. 8 N., R. 30 E., Sec. 35, SE, SW, NW
A-5	T. 8 N., R. 31 E., Sec. 15, SE, NE, SW
A-6	T. 7 N., R. 27 E., Sec. 15, SE, SE, NE
A-7	T. 6 N., R. 31 E., Sec. 4, NE, NE, NE
A-8	T. 6 N., R. 29 E., Sec. 36, SE, SE, NE
A-9	T. 5 N., R. 31 E., Sec. 5, NE, NW, SE
A-10	T. 5 N., R. 30 E., Sec. 22, SE, SE, SE
A-11	T. 5 N., R. 31 E., Sec. 34, SW, SW, SW

GFC:cbo 8/3/82

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DEAL/LEASE NO. JOB #E-6022

RFE NO. AUTH. NO.

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	RFE NO.	AUTH. NO.	ÁMOUNT
BONUS			\$
BROKERAGE OR COMMISSION			
RENTAL		DIV. NO.	
FILING FEE			
DOC. STAMPS			
EXCH. FEE			
Misc.	82802		\$275.00
TOTAL			\$275.00

1564

PAYABLE TO 011 a

ADDRESS

Oil and Gas Conservation Commission State of Arizona

1645 West Jefferson, Suite 420

Phoenix, Arizona 85007

SOC. SEC: NO.
OR I.D. NO.
(REO. BY LAW)

FORM 9004-08 8-78